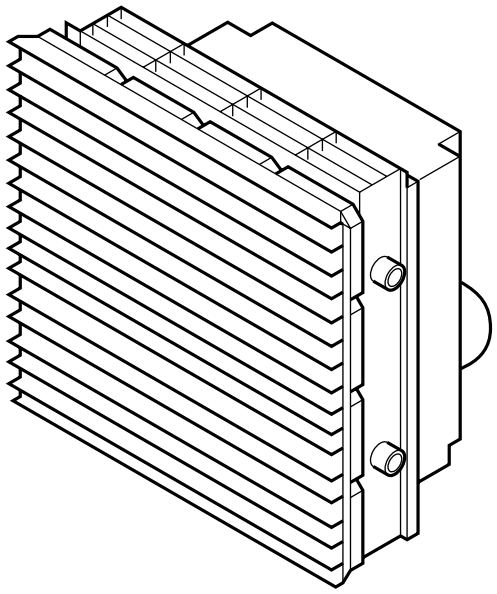
SERVICE MANUAL

JumboTron

MODEL	DEST.	CHASSIS NO.
LDU-1530S	World	
LDU-1530L	World	
LDU-1540S	World	
LDU-1540L	World	

MODEL	DEST.	CHASSIS NO.
LDU-1515	World	

REVISED-3



LED Jumbo Tron Display Unit

SONY

⚠警告

このマニュアルは，サービス専用です。
お客様が，このマニュアルに記載された設置や保守，点検，修理などを行うと感電や火災，人身事故につながることがあります。
危険をさけるため，サービストレーニングを受けた技術者のみご使用ください。

⚠WARNING

This manual is intended for qualified service personnel only.
To reduce the risk of electric shock, fire or injury, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

⚠WARNUNG

Die Anleitung ist nur für qualifiziertes Fachpersonal bestimmt.
Alle Wartungsarbeiten dürfen nur von qualifiziertem Fachpersonal ausgeführt werden. Um die Gefahr eines elektrischen Schlages, Feuergefahr und Verletzungen zu vermeiden, sind bei Wartungsarbeiten strikt die Angaben in der Anleitung zu befolgen. Andere als die angegeben Wartungsarbeiten dürfen nur von Personen ausgeführt werden, die eine spezielle Befähigung dazu besitzen.

⚠ AVERTISSEMENT

Ce manual est destiné uniquement aux personnes compétentes en charge de l'entretien. Afin de réduire les risques de décharge électrique, d'incendie ou de blessure n'effectuer que les réparations indiquées dans le mode d'emploi à moins d'être qualifié pour en effectuer d'autres. Pour toute réparation faire appel à une personne compétente uniquement.

CAUTION

1. To Avoid Unit from Dropping
   Allways attach the wire to the unit before installation or removal to avoid injury by accidental drop of the unit.
2. Do Not Look LED Light Straight
   Looking LED light straight in close distance, when LED is ON, strong light may be harmful to your eyes.

WARNING!!

AN INSULATED TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY A ⚠ MARK ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION!!

AFIN D'ÉVITER TOUT RISQUE D'ÉLECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE.
LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ Á L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS Á LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MAPQUE ⚠ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÈCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.

Specifications

Display element:	Full color LED cell × 16 (1530L, 1530S, 1540L, 1540S) C board × 4 (1515)
Maximum brightness:	3000 cd/m^2 (1530L, 1530S) 4000 cd/m^2 (1540L, 1540S) 1500 cd/m^2 (1515)
Color temperature:	7000 K (1/2 brightness)
Uneven brightness:	±3% or less (front, between pixels)
Pixel pitch:	15 mm × 15 mm
Visible distance:	7.6 m or more
Angle of visibility:	Horizontal +60 ° Vertical : Refer to the following table.
Operating temperature:	0 °C to +45 °C (1530L, 1530S, 1540L, 1540S) 0 °C to +40 °C : (1515)
Storage temperature:	−20 °C to +60 °C (1530L, 1530S, 1540L, 1540S) −10 °C to +50 °C : (1515)
Humidity:	90% or less (no condensation)
Drip-proof:	Surface drip-proof structure (equivalent to JIS Grade 5) (except to 1515)
Power supply voltage, frequency:	AC100 ~ 240 V ±10%, 50/60 Hz
Power consumption:	Maximum 100 W
Signal input:	15-pin connector
Power supply input:	3-pin inlet
Dimensions:	239 × 239 × 153 mm (H × W × D) : (1530S, 1540S) 239 × 239 × 158 mm (H × W × D) : (1530L, 1540L) 239.5 × 239.5 × 146 mm (H × W × D) : (1515)
Weight:	3.0 kg 2.8 kg (1515)

Units and cells

	Louver length (mm)	Brightness (cd/m^2)	Visible angle (H/V)	Remarks
LDU-1530S	7	3000	120 °/ u: 25 ° d: 50°	Indoor use Wide visible angle Equipped in vehical
LDU-1530L	12	3000	120 °/ u: 15 ° d: 40 °	Outdoor use Equipped in vehical
LDU-1540S (OLD)	7	4000	120 °/ u: 25 ° d: 50°	Indoor use Wide visible angle Equipped in vehical
LDU-1540L (OLD)	12	4000	120 °/ u: 15 ° d: 40 °	Outdoor use Equipped in vehical
LDU-1540S (NEW)	4	4000	120 °/ u: 45 ° d: 55°	Indoor use Wide visible angle Equipped in vehical
LDU-1540L (NEW)	7	4000	120 °/ u: 25 ° d: 50 °	Outdoor use Equipped in vehical
LDU-1515	(2.5)	1500	120 °/ u: 45 ° d: 55°	Indoor use Low noise level Wide visible angle

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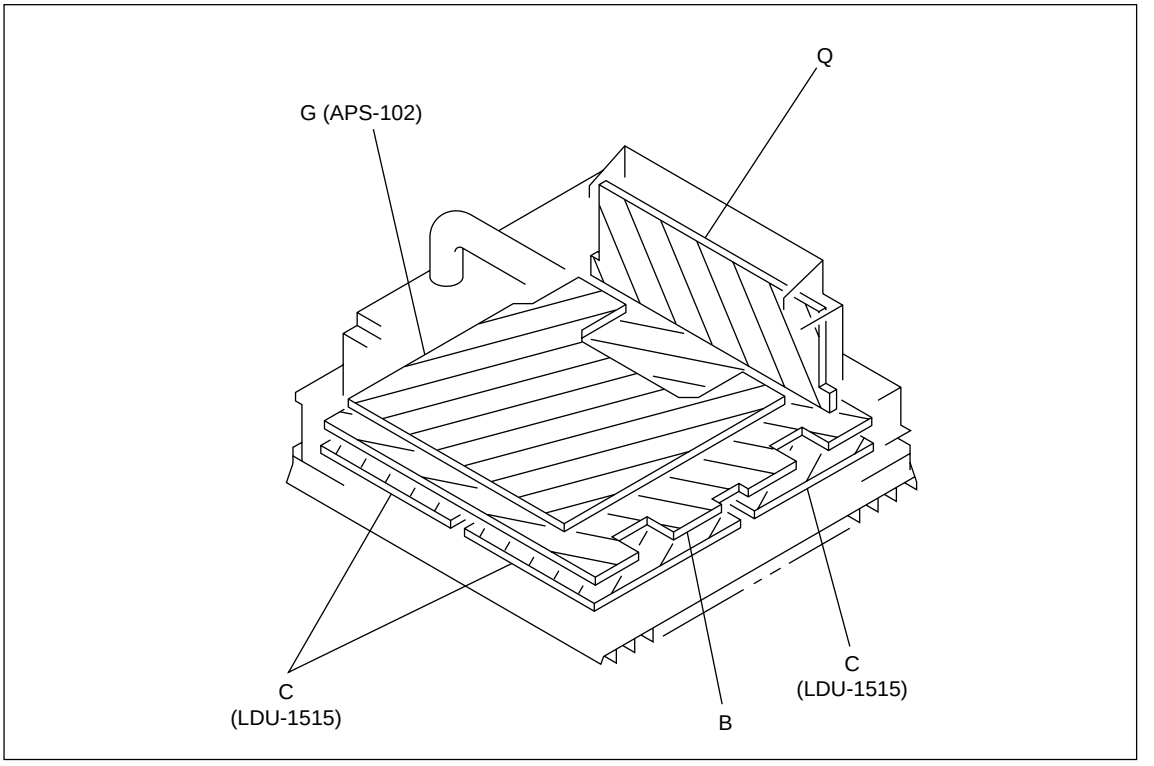
Section 1
Service Information

1-1. Circuit Boards Location

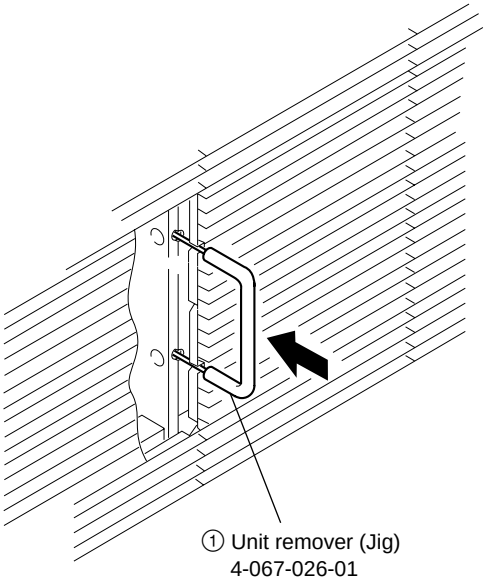


Caution for Static Electricity to LED Cell (LDU-1530S/1530L/1540S/1540L), C Board (LDU-1515)
The LED is very weak to static electricity, and a discharge of static electricity could shorten the LED life. Wear the earth bands when touching the LED or the connector of the LED cell (LDU-1530S/1530L/1540S/1540L), C board (LDU-1515) to replace the LED cell (LDU-1530S/1530L/1540S/1540L), C board (LDU-1515) or handle the unit.

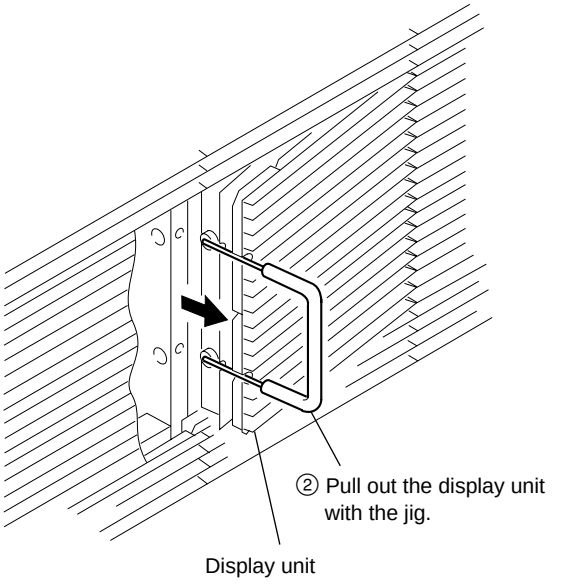
1-2. Disassembly

1-2-1. Exchanging the Display Unit from the Front Side of the Unit (LDU-1530S/1530L/1540S/1540L)

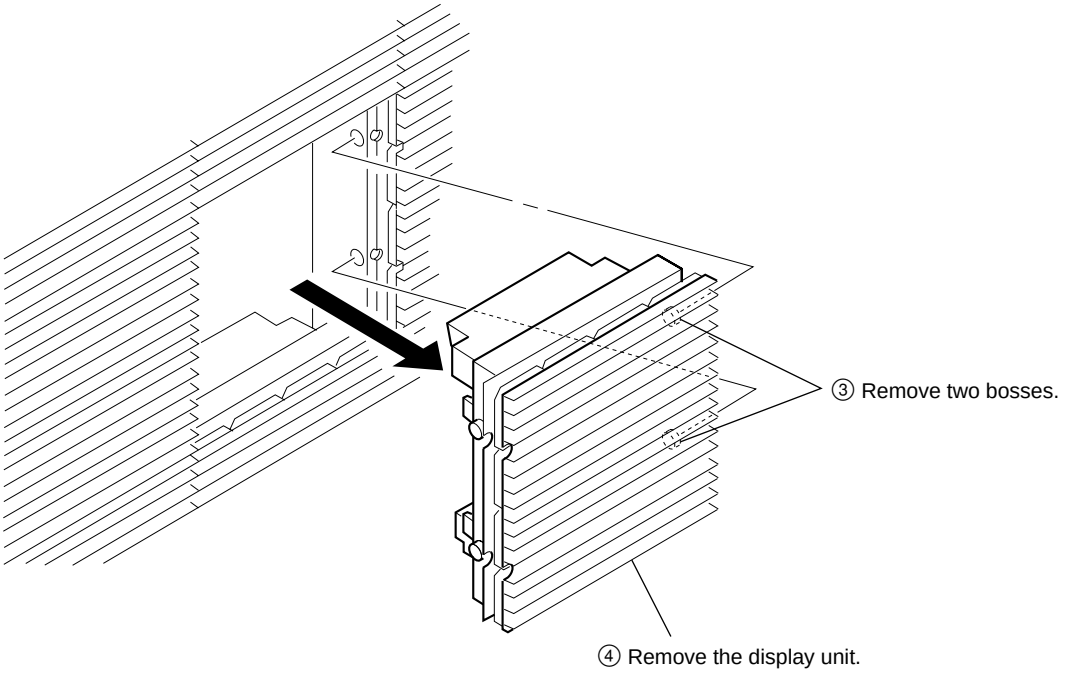
1.



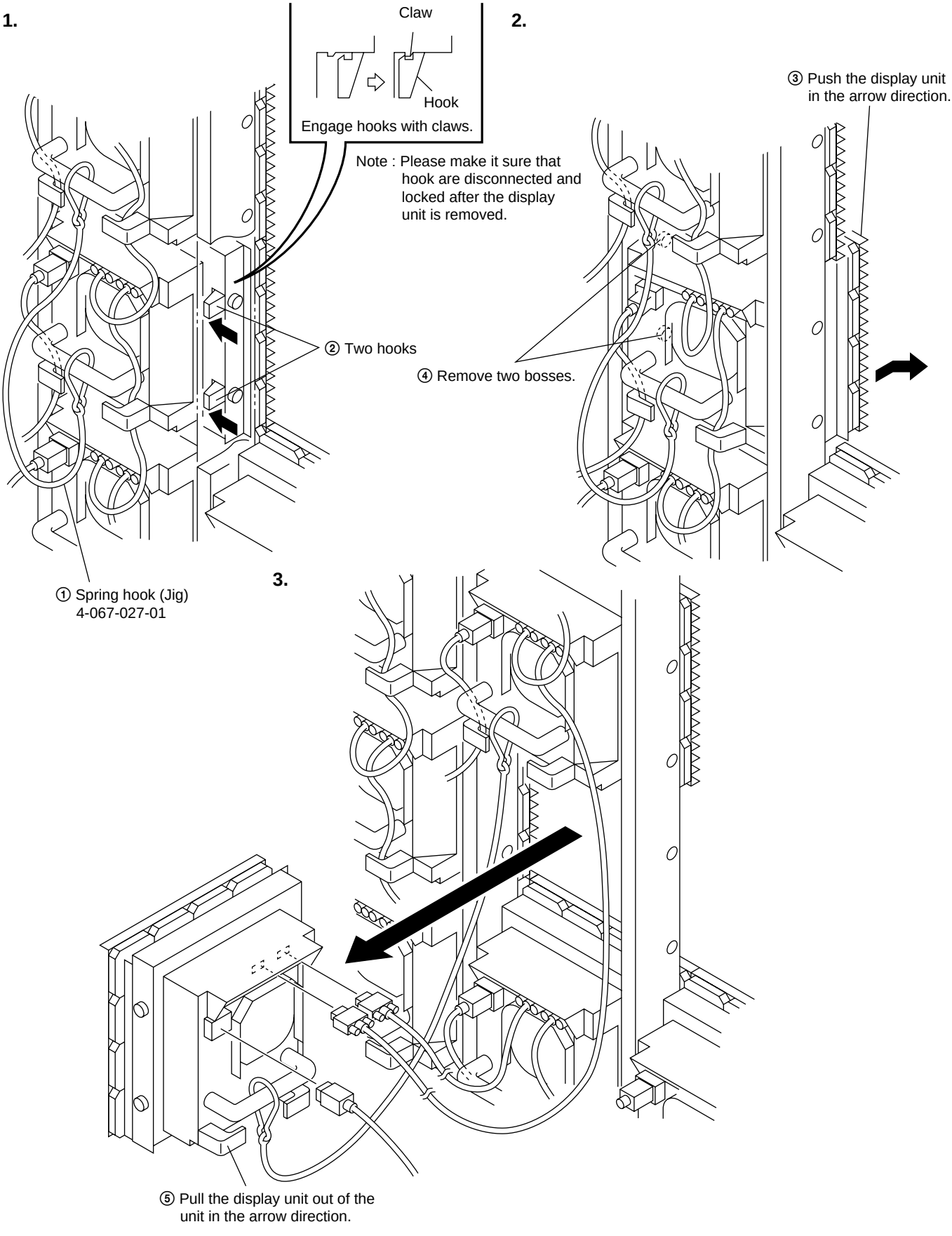
2.



3.

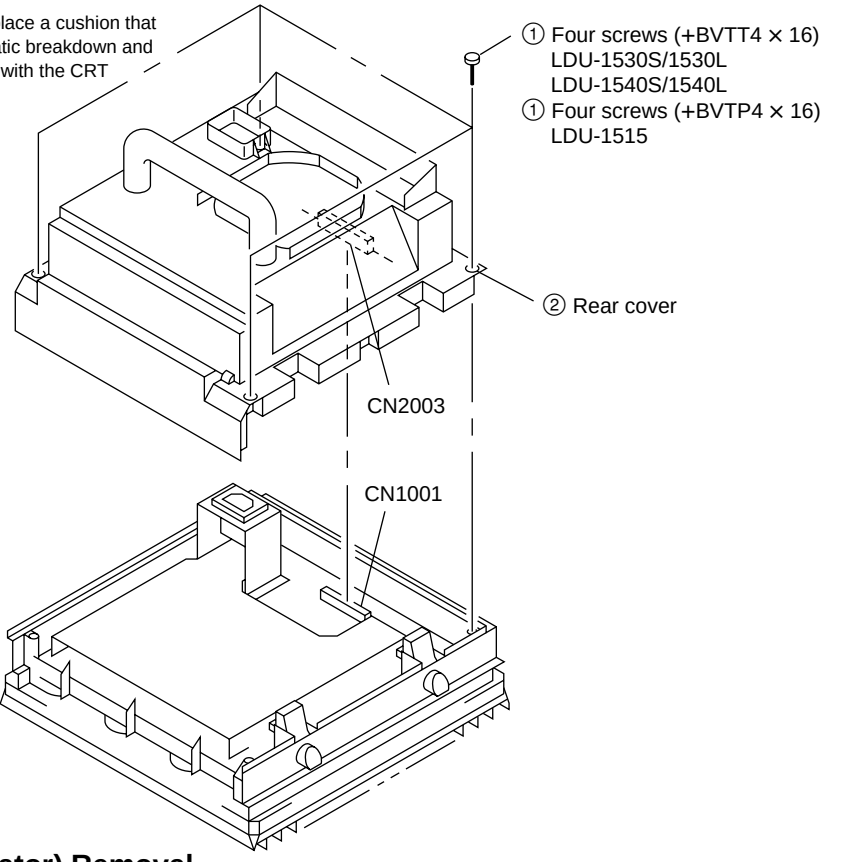


1-2-2. Exchanging the Display Unit from the Behind of the Unit

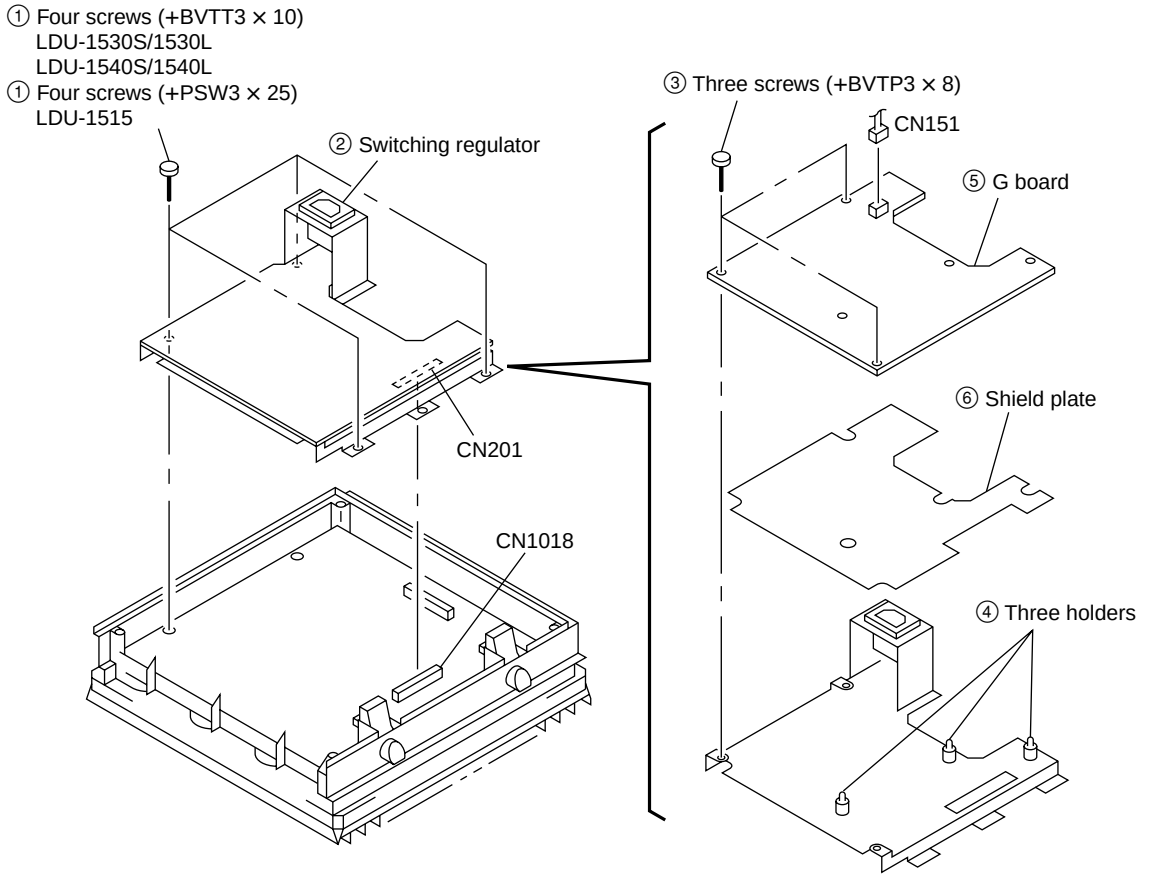

1.
Claw
Hook
Engage hooks with claws.
Note : Please make it sure that hook are disconnected and locked after the display unit is removed.
② Two hooks
① Spring hook (Jig)
4-067-027-01
2.
③ Push the display unit in the arrow direction.
④ Remove two bosses.
3.
⑤ Pull the display unit out of the unit in the arrow direction.

1-2-3. Rear Cover Removal

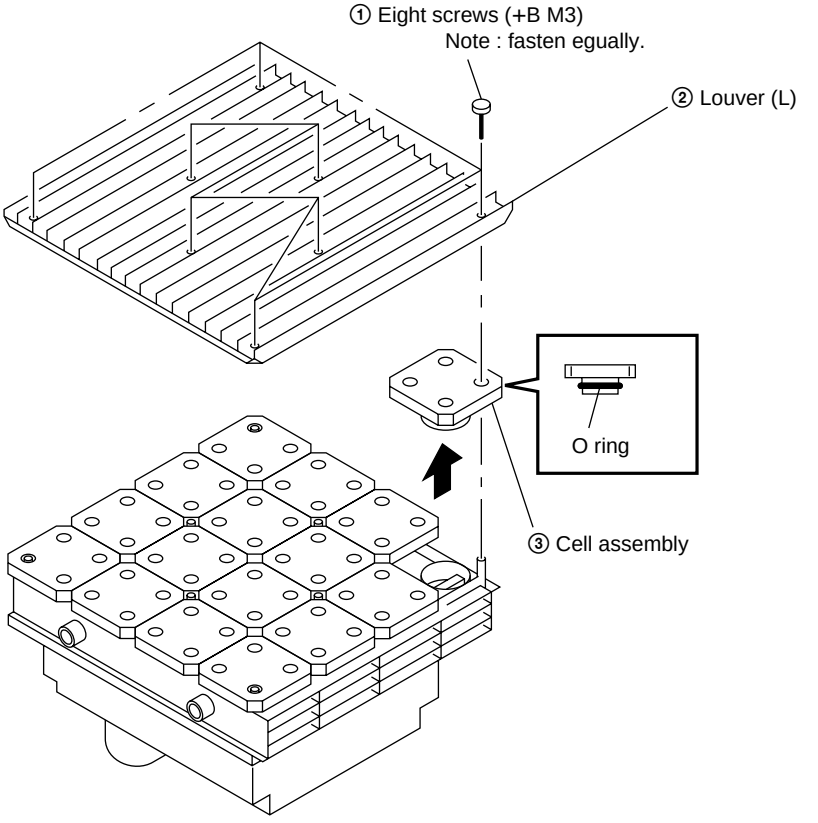
Note : When starting maintenance services, be sure to place a cushion that prevents static charge to protect the LED from static breakdown and louver from scars, when the unit is place on table with the CRT surface facing down.



1-2-4. G Board (Switching Regulator) Removal

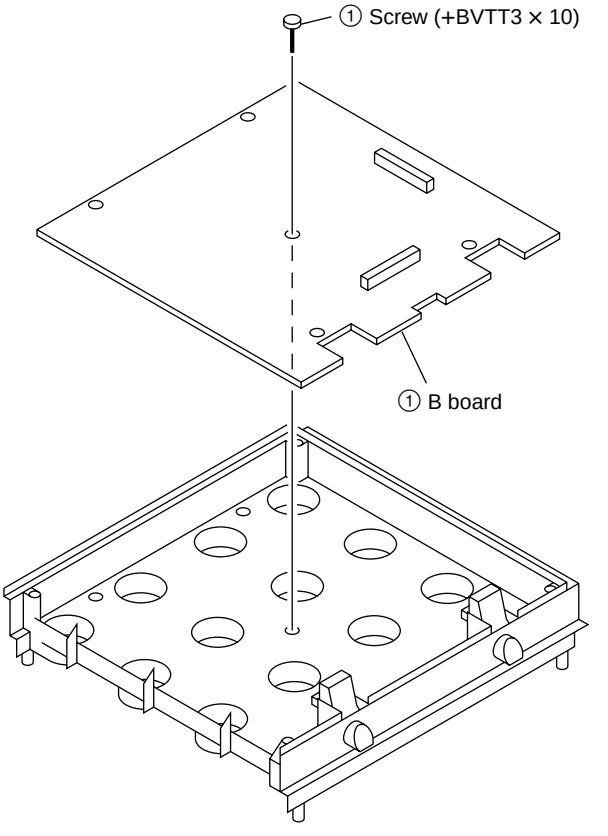


1-2-5. Cell Assembly Removal (LDU-1530S/1530L/1540S/1540L)

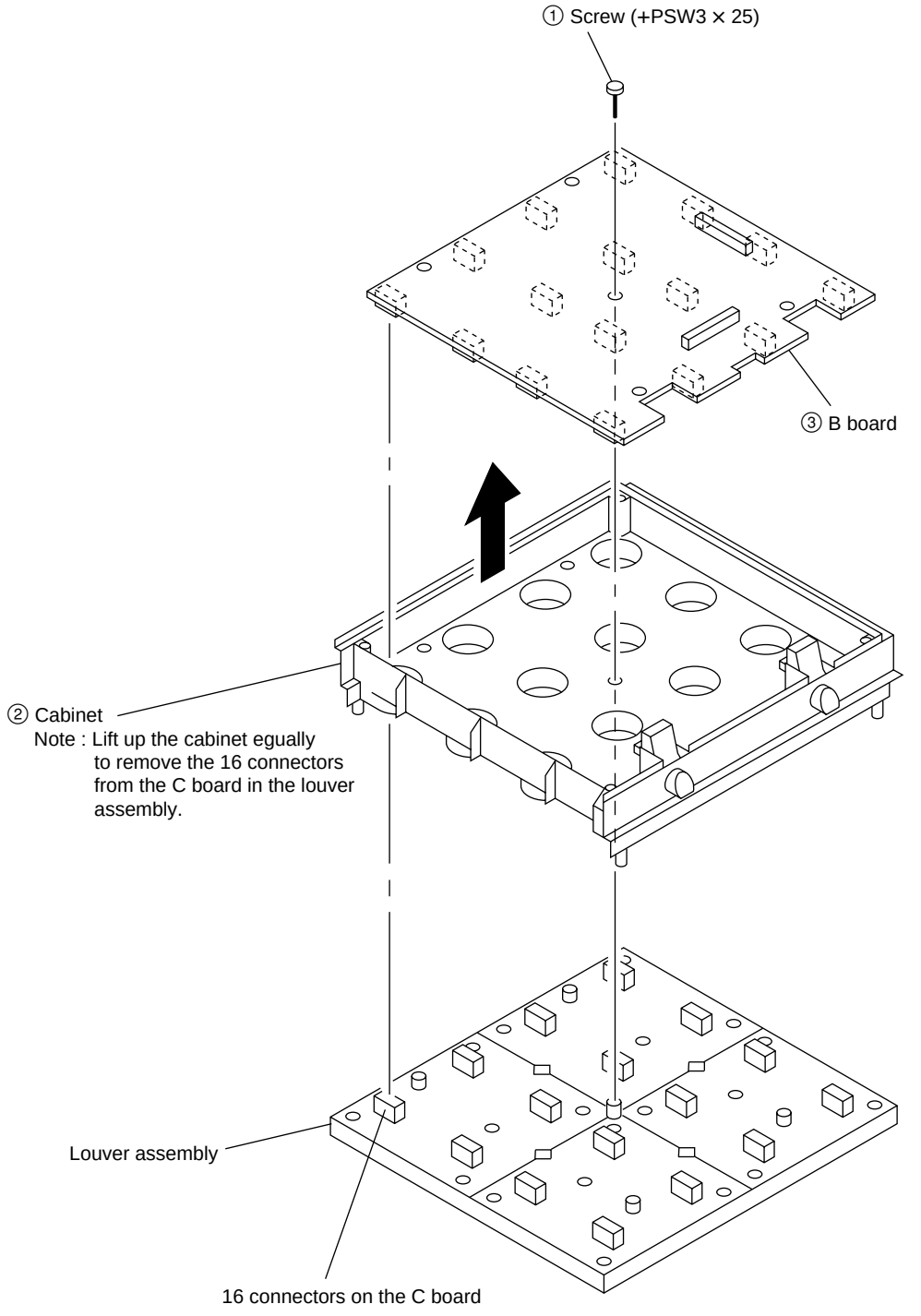


1-2-6. B Board Removal (LDU-1530S/1530L/1540S/1540L)

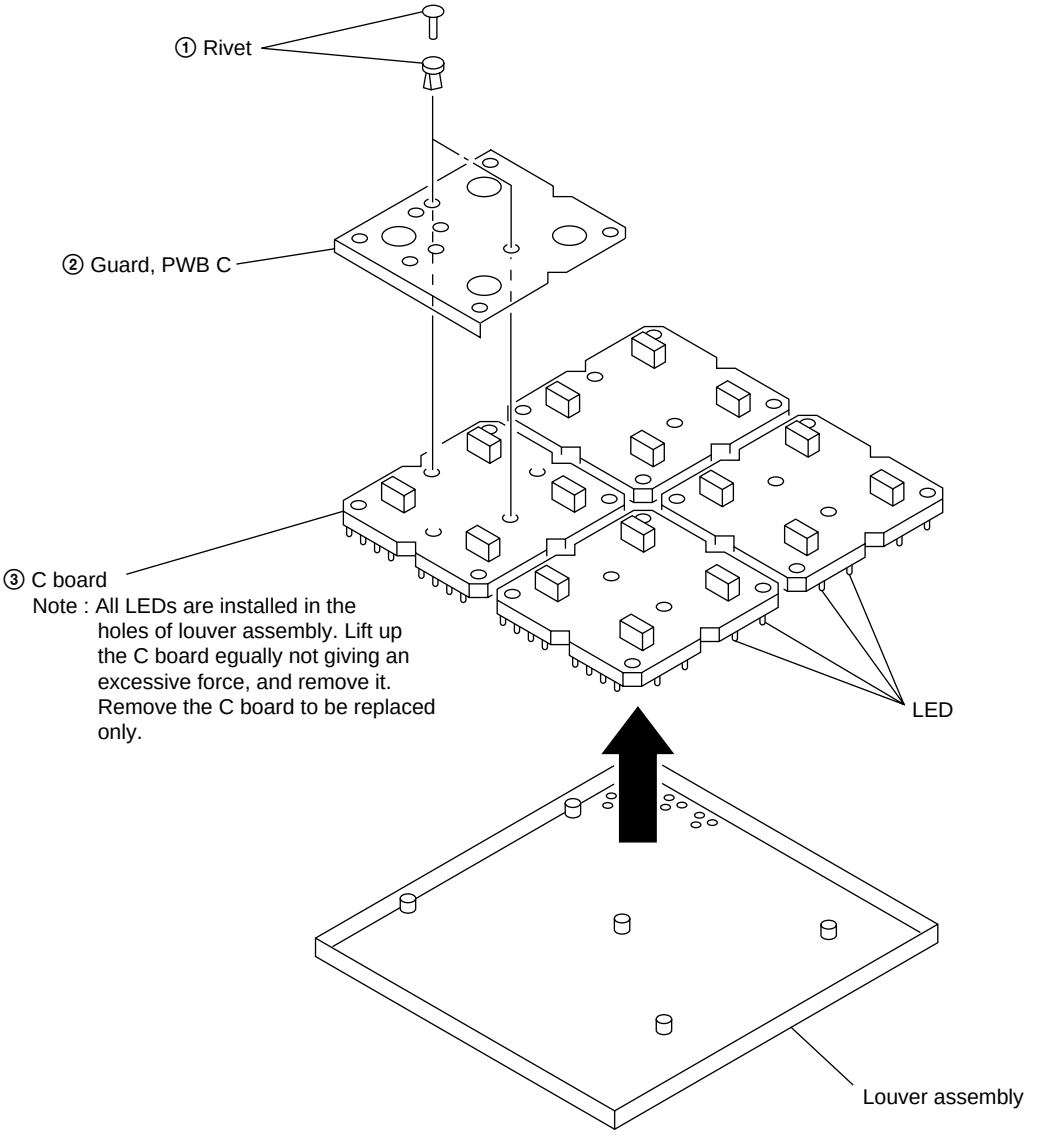
• Remove the G Board (switching regulator) and cell assembly.



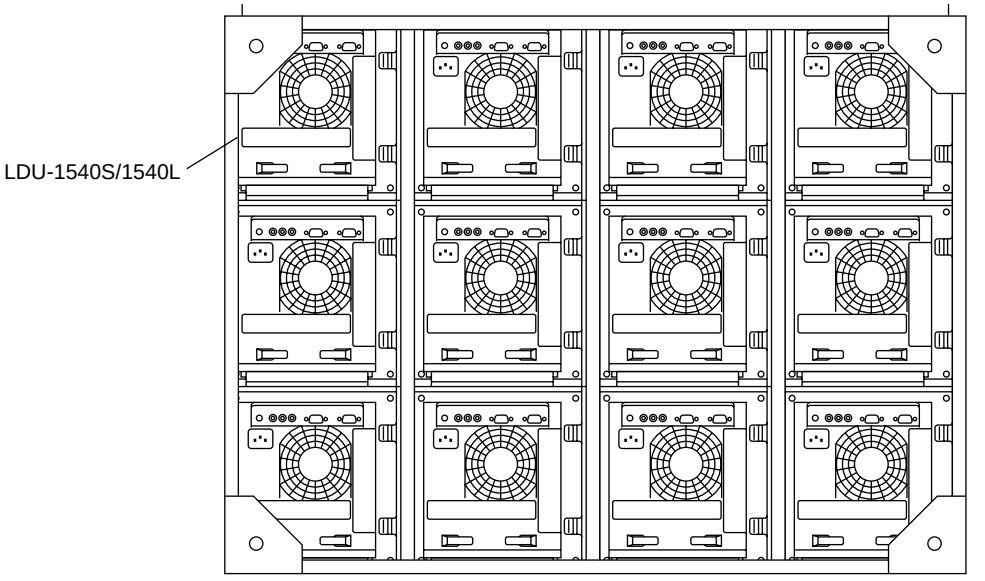
1-2-7. B Board Removal (LDU-1515)


① Screw (+PSW3 × 25)
③ B board
② Cabinet
Note : Lift up the cabinet egually
to remove the 16 connectors
from the C board in the louver
assembly.
Louver assembly
16 connectors on the C board

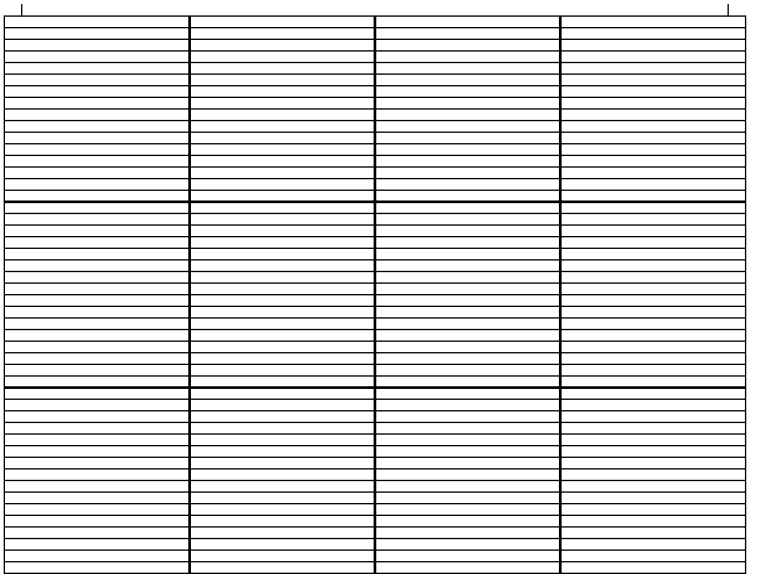
1-2-8. C Board Removal (LDU-1515)


① Rivet
② Guard, PWB C
③ C board
Note : All LEDs are installed in the holes of louver assembly. Lift up the C board egually not giving an excessive force, and remove it. Remove the C board to be replaced only.
LED
Louver assembly

1-2-9. LDU-1540S/1540L Exterior View



Rear View



Front View

Note : On replacing one of the units in the module, each unit is placed in each shelf; the top, the middle and the bottom. In three units, the top one and the bottom one cannot be replaced immediately because the module frame obstructs them. To remove the top or bottom unit, remove the middle unit first and unlock the hooks of the unit to be removed. Then slide it a little bit into the space where the middle one used to be. To install, follow the method in reverse order, that is, slide the unit in the shelf to fix through the space where the middle one used to be. After fixing, put the middle unit back. (Please connect the cable and perform setting of address (3-3(E)).)

1-3. Cleaning the Display surface

1-3-1. Criteria for display surface cleaning

1. Normally, clean the display surface once a year.
   However, in areas where the unit is liable to become dirty, clean the display surface by criterion 2.
2. When the difference in luminance between when the display surface is dirty and when the display surface is cleaned is 15% or more, clean the display surface.

1-3-2. Available detergent

Diluted neutral detergent (approx. 1 part detergent : 100 parts water)
Note: Do not use acidic and alkaline detergent, or organic solvent containing alcohol, etc.

1-3-3. How to clean the louver and display surface

1. Remove stains on the louver and display surface with a soft brush or cloth, etc. moistened with diluted neutral detergent.
2. Then, wash away neutral detergent using clean water.

Note: 1. Do not directly wipe the display surface with a dry brush or cloth.
(Be sure to moisten the brush or cloth before cleaning.)
2. Wear an antistatic grounding strap during cleaning.
3. Do not apply force to the louver or display surface while wiping them.

1-3-4. Models for indoor use

When wiping the louver and display surface of an indoor model, wring the cloth to avoid moistening the unit with neutral detergent and clean water.

Section 2
Electrical Adjustments

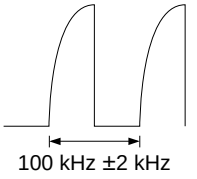
[Measuring instrument]

1. Oscilloscope
2. Digital tester
3. DC power supply

G Board Adjustments

2-1. Lowest Frequency Adjustment (RV103)

Apply 18 V between ④ pin (VIN) and ⑯ pin (GND) of IC103, and check the Q105 gate input waveform with an oscilloscope.
Then, adjust the frequency of gate waveform to 100 kHz ±2 kHz with the RV103. (Set oscilloscope to 5 V range)



∗Don't turn on Power supply AC.

2-2. Power Factor Improvement (PFC) Voltage Adjustment (RV101)

Power supply AC100 to 240 V, and adjust RV101 so that the voltage at both ends of C111 becomes 380 ±5 V. The load mode is the MIN.

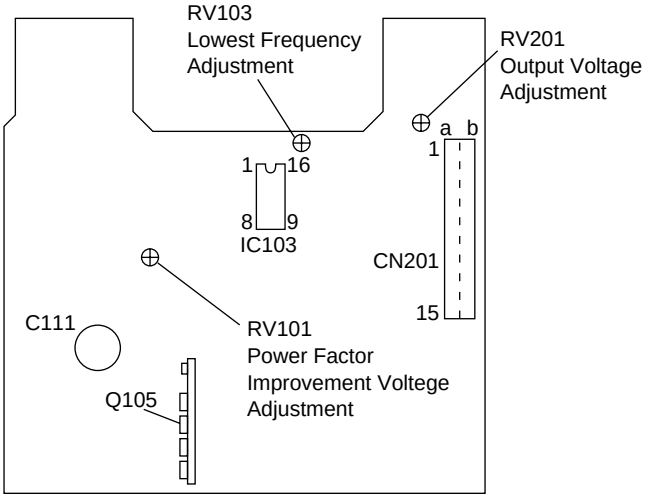
2-3. Output Voltage Adjustment (RV201)

Power supply AC100 to 240 V, and adjust RV201 so that the output voltage of 5.8 V line (CN201 a⑧ to ⑬ pins) becomes 5.80 ±0.05 V.
Then, confirm that each line voltage is within the following range.

5.8 V line (CN201 a⑧ to ⑬ pins)	5.75 to 5.80 V
4.1 V line (CN201 a③ to ⑦ pins)	3.95 to 4.35 V
5.0 V line (CN201 a⑭, ⑮ pins)	4.80 to 5.20 V
12 V line (CN201 a①, ② pins)	9.8 to 12.4 V

The load mode is the MIN.

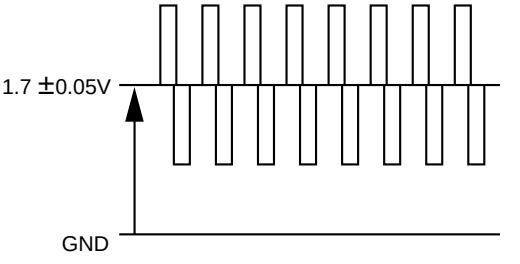
G Board (APS-102)



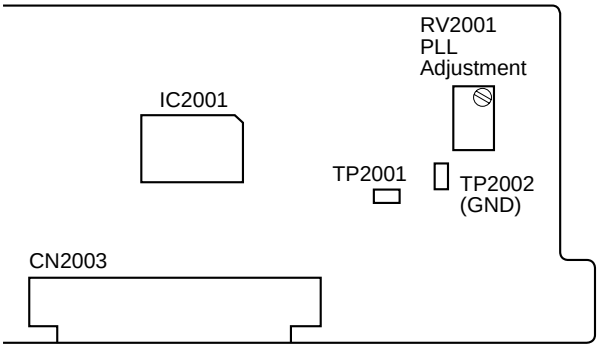
Q board adjustment

2-4. PLL Adjustment (RV2001)

Power supply AC100 to 240 V, connect the oscilloscope with TP2001 and adjust RV2001 so that the center of waveform becomes 1.7 ±0.05.



Q Board



Section 3
Circuit Descriptions

3-1. Signal System

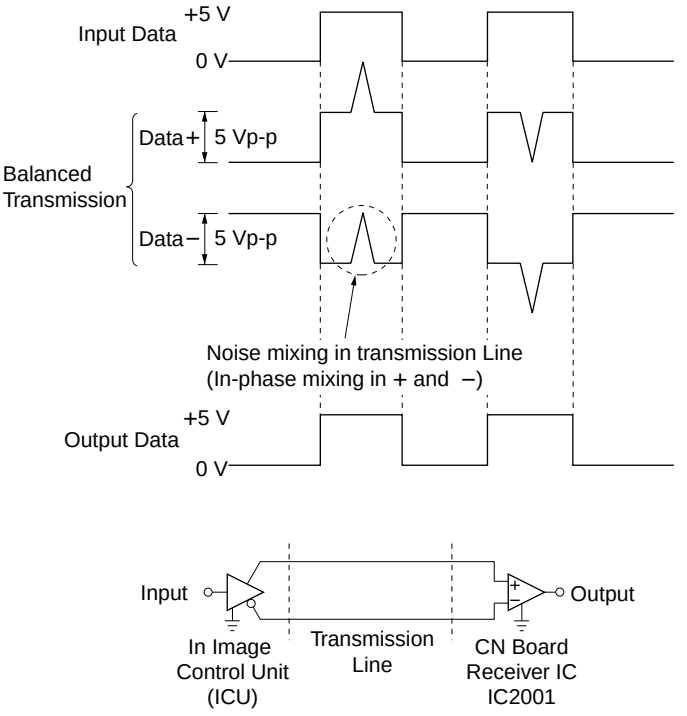


Fig. 1

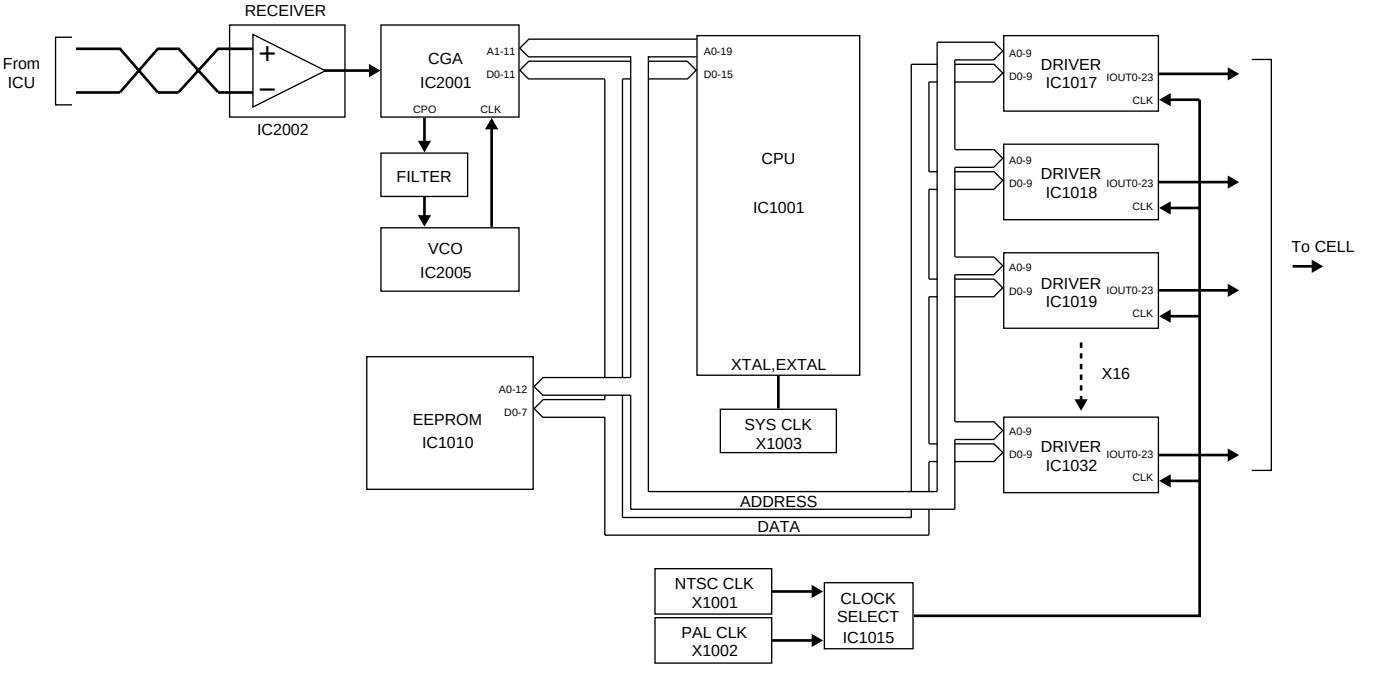


Fig. 2 Signal Block Diagram

The data signals from ICU are input to the IC2001 CGA via IC2002 line receiver on the Q board. A phase comparator is built in the CGA, and the PLL is composed of a combination of filter and IC2005 VCO. A clock component contained in the data form ICU is extracted by this PLL, and it is used as reference clock for CGA. The line address is added to the head of image data, and the CGA makes serial-parallel conversion of only the data that corresponds to the unit ID concerned and takes it in the RAM. The microprocessor IC1001 on the B board sends this data to respective drivers (IC1017 to 1032). Where PWM modulation is performed to drive the cells.

The correction data for each pixel are stored in the IC1010 EEPROM on the B board. The microprocessor always writes these correction data into the RAM in driver ICs on the B board. Based on these correction data, the driver ICs control the current to correct uneven brightness of each device. The clock input to the driver ICs is internally divided according to the brightness level, and it is used as reference clock for PWM modulation.

The correction data stored in the EEPROM are adjustable in the field using the unit alignment controller or screen alignment controller.

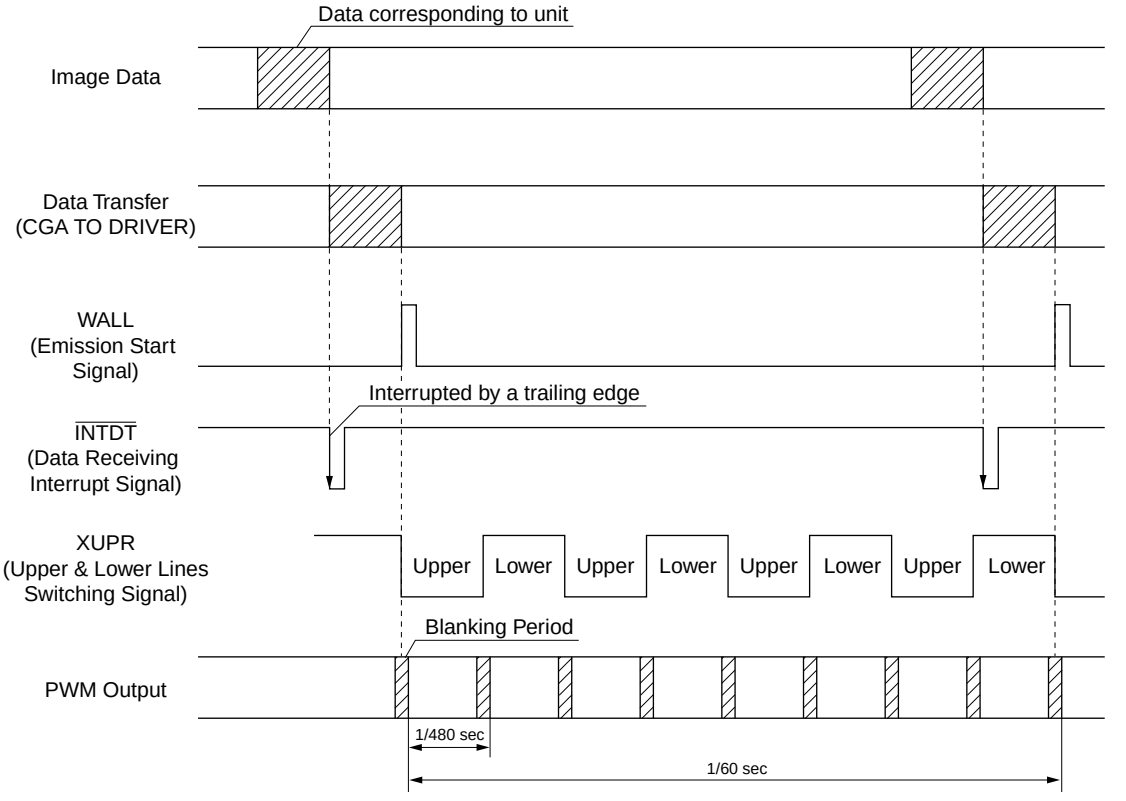


Fig. 3

3-2. Address Switch and Status LED

3-2-1. Address Switch

The function of the signal generator is built in the unit, and it can generate three kinds of signals as listed in Table 1. The signals can be selected with the address switch. The address switch has been set to 001 at the shipment.

Address SW setting (Lower 2 digits)	Output signal	Remarks
∗97	Full white signal	
∗98	Character signal	Alphabets and numbers are scrolled.
∗99	Stair step signal, color bar signal, and blanking signal are scrolled.	

∗ : Don't care for higher 1 digit.

Table 1

Initial setting of address switch

In composing the screen, set the address switches of respective unit as follows.

01	01	01	01	01	01	
02	02	02	02	02	02	
03	03	03	03	03	03	
04	04	04	04	04	04	

3-2-2. Status LED

Specific unit can easily be selected by blinking the LED on the rear of unit using the unit alignment controller or screen alignment controller.

Green	Normal
Red lights up	Alarm
Red blinking	Unit selection

Also, in case of alarm, LED automatically lights up by the self diagnostic function.

4 V Down
6 V Down
12 V Down
Thermal Alarm
Fan Stop

3-2-3. Brightness Adjustment

The brightness (color temperature) can be adjusted for every unit, cell dot, and pixel using the unit alignment controller (JME-UA200), and this value can be stored in the memory. For an adjusting method, refer to the JME-UA200 Instruction Manual.

3-3. G Board (power system)

3-3-1. Filter & AC Rectifier Block

After AC inlet, a discharge resistor R101 and a normal mode lightning surge protect varistor VDR101 are arranged. After that, the 2-stage filter is composed of C101/LF101 and LF102/C102, and rectification is done with D101.

3-3-2. PFC Block

After rectification, a boost up converter is composed of Q101, D102, and C110, and the output voltage is maintained to about 380 V (adjusted with RV101) under control of IC101. The IC101 detects the input current waveform to make the input current similar to the input voltage of the same phase so as to improve the power factor.
When the power is turned on, the power is supplied from R153, R154, then after the power supply block started to operate, the power is supplied from D105 and R117 of the T101 tertiary winding.
As for the overvoltage, etc. caused by alarms in the PFC control system, the double protection circuit of restriction by IC102 (⑤, ⑥, ⑦ pins) and latch through detection by IC103 is provided. The PFC output voltage is set to about 380 V with RV101.
Also for the overvoltage or overcurrent caused by alarms in the PFC control system, the protection circuit operates through monitoring by the IC103.

3-3-3. Power Supply Block

Basic circuit composition is the 2-crystal current resonance circuit consisting of Q104 and Q105. Using C117 and T101 primary winding leakage inductance, the resonance system is made up to perform zero current switching. By the switching, the output of IC103 OUT 1, 2 pins is transmitted to the respective drive circuits for Q104 and Q105 via T102 drive transformer. The control system is a frequency control system, where the output voltage is controlled to constant level by varying the RT2 terminal via PH101.

3-3-4. OTP (Temperature Protection) Circuit

This circuit consists of THP101 and Q106 attached to the heat sink, and when the heat sink temperature rises over 100°C, THP101 opens, IC103 OVP terminal (⑥ pin) becomes "H", IC101 is latched, and the switching of power supply block stops. To reset, turn off the AC and allow time for about one minute so as to lower the IC103 Vin terminal (④ pin) to 12 V or less.

3-3-5. Output Voltages

5.8 V Output

After output from the T101 secondary winding terminal, the power is rectified at D204 and D205, and a ripple component is reduced by a π type filter, then the voltage is output from the output terminal CN201 a⑧ to ⑬ pins. The output voltage is detected by the operation amplifier of IC202 ⑤, ⑥, ⑦ pins, then it is returned to the IC103 ⑫ pin via PH101 so as to be stabilized through the frequency control system. Both 5.8 V and 4.1 V are adjusted with RV201. Also, by detecting the voltage at both ends of L204 with IC202 ①, ②, ③ pins, if the current in 5.8 V line is taken about 12 A or more, Q202 turns on via D215 and D214, PH102 operates, IC103 OVP terminal (⑥ pin) becomes "H", IC101 is latched, and the switching of power supply block stops. To reset, turn off the AC and allow time for about one minute so as to lower the IC103 V_{IN} terminal (④ pin) to 12V or less.

5.0 V Output

As for the 5 V output, the power is branched prior to L204 for 5.8 V output, and it is controlled to 5 V by 4-pin regulator IC201 having low saturation, then output from the output terminal CN201 a⑭ to ⑮ pins.

4.1 V Output

After output from the T101 secondary winding terminal, the 4.1 V power is supplied from D206 and magnetic amplifier consisting of L201 and L202. A ripple component is reduced by a π type filter, then the voltage is output from the output terminal CN201 a③ to ⑦ pins. The output voltage is detected by the operation amplifier of IC202 ⑧, ⑨, ⑩ pins, then it is returned to the magnetic amplifier via Q201 so as to be stabilized.
Also, by detecting the voltage at both ends of L206 with IC202 ⑫, ⑬, ⑭ pins, if the current in 4.1 V line is taken about 14 A or more, Q202 turns on via D215 and D214, PH102 operates, IC103 OVP terminal (⑥ pin) becomes "H", IC101 is latched, and the switching of power supply block stops. To reset, turn off the AC and allow time for about one minute so as to lower the IC103 Vin terminal (④ pin) to 12 V or less.

12 V Output

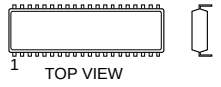
After output from the T101 secondary winding terminal, the 12 V is output from the double voltage circuit composing of C201, C202, and D202, D203, D209, D210 using the 5.8 V line. After that, it is branched into two lines; in one line, a ripple component is reduced by a π type filter, then it becomes Vcc for the circuit system on the secondary side, and in another line, the voltage is output from the output terminal CN201 a① to ② pins through the TH201 for current restriction.

3-3-6. OVP Circuit

The 5.8 V and 4.1 V output voltages are monitored by Zener diode D212 and D211, and if overvoltage occurs, Q202 turns on via D215 and 214, PH102 operates, IC103 OVP terminal (⑥ pin) becomes "H", IC101 is latched, and the switching of power supply block stops. To reset, turn off the AC and allow time for about one minute so as to lower the IC103 Vin terminal (④ pin) to 12 V or less.

Section 4
Semiconductors

BA10324A



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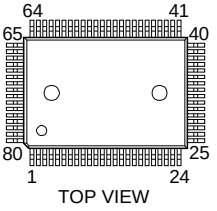

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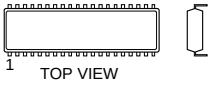

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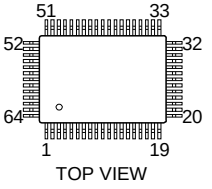

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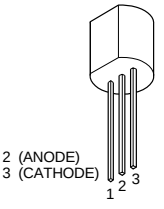

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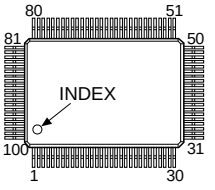

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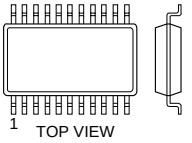
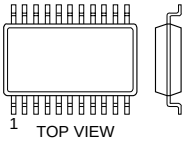


28pin SOP

LH5116N4



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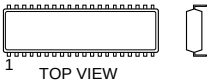

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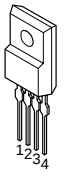

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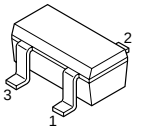

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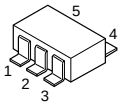

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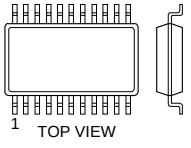

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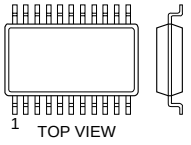

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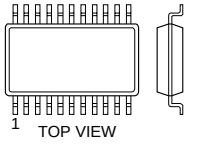

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2SA1175TP-J
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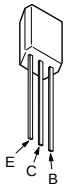

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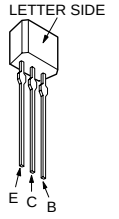

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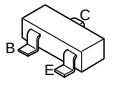

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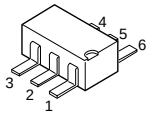
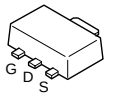


(1) DTr1 OUT
(2) DTr2 IN
(3) DTr2 GND
(4) DTr2 OUT
(5) DTr1 IN
(6) DTr1 GND

2SJ197-T1



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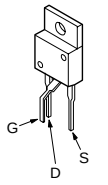

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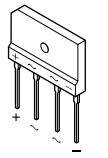

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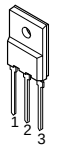

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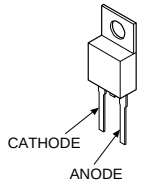

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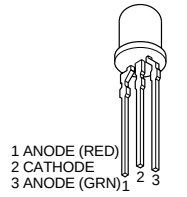

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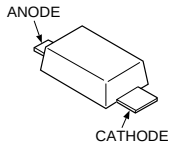

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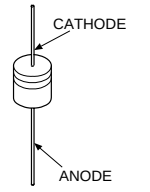
RD4.3ES-T1B
RD4.7ES-T1B1
RD6.8ES-T1B1
1SS119-25TD
1SS133T-77



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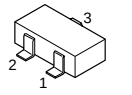

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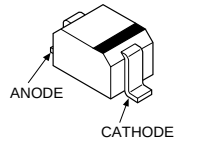

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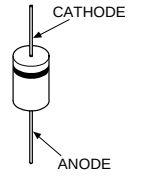

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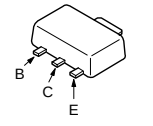

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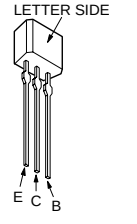


Section 5
Exploded Views

NOTE :

The components identified marked ⚠ are critical for safety.
Replace only with the part number specified.

Les composants identifiés par la marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

- When replacing parts of LDU-1530L/1530S, use the parts shown by “OLD”
- Items marked “ * ” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.

【使用上の注意】

⚠印の部品は , 安全性を維持するために , 重要な部品です。従って交換時は , 必ず指定の部品を使用してください。

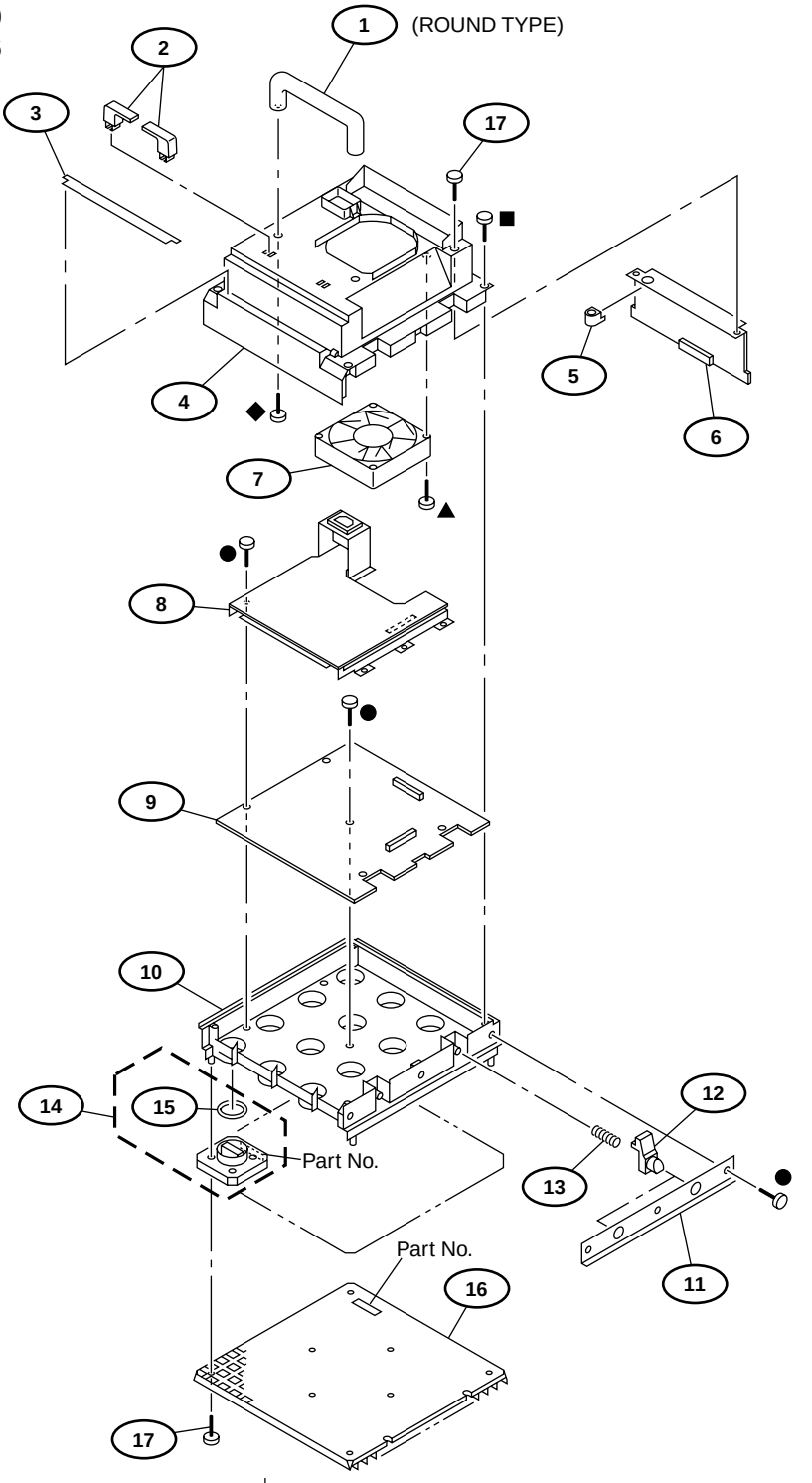
- LDU-1530L/1530Sの部品交換時には (OLD) の部品を使用してください。
- ＊印の部品は，オーダー部品のため常時在庫しておりません。受注して供給できるまで日数を要します。
- 分解図中の構成部品で，Ref. No. のない部品は供給しません。
- 組立部品の構成部品は Remark 欄に Ref. No. で示します。

5-1. Chassis (LDU-1530S/1530L/1540S/1540L)

● : 7-685-873-09 +BVTT3 × 10
■ : 7-685-885-09 +BVTT4 × 16
▲ : 7-682-968-09 +PSW4 × 30
◆ : 7-682-974-11 +PSW6 × 10

OLD
LDU-1540S : Up to S/N 1003497
LDU-1540L : Up to S/N 1002490

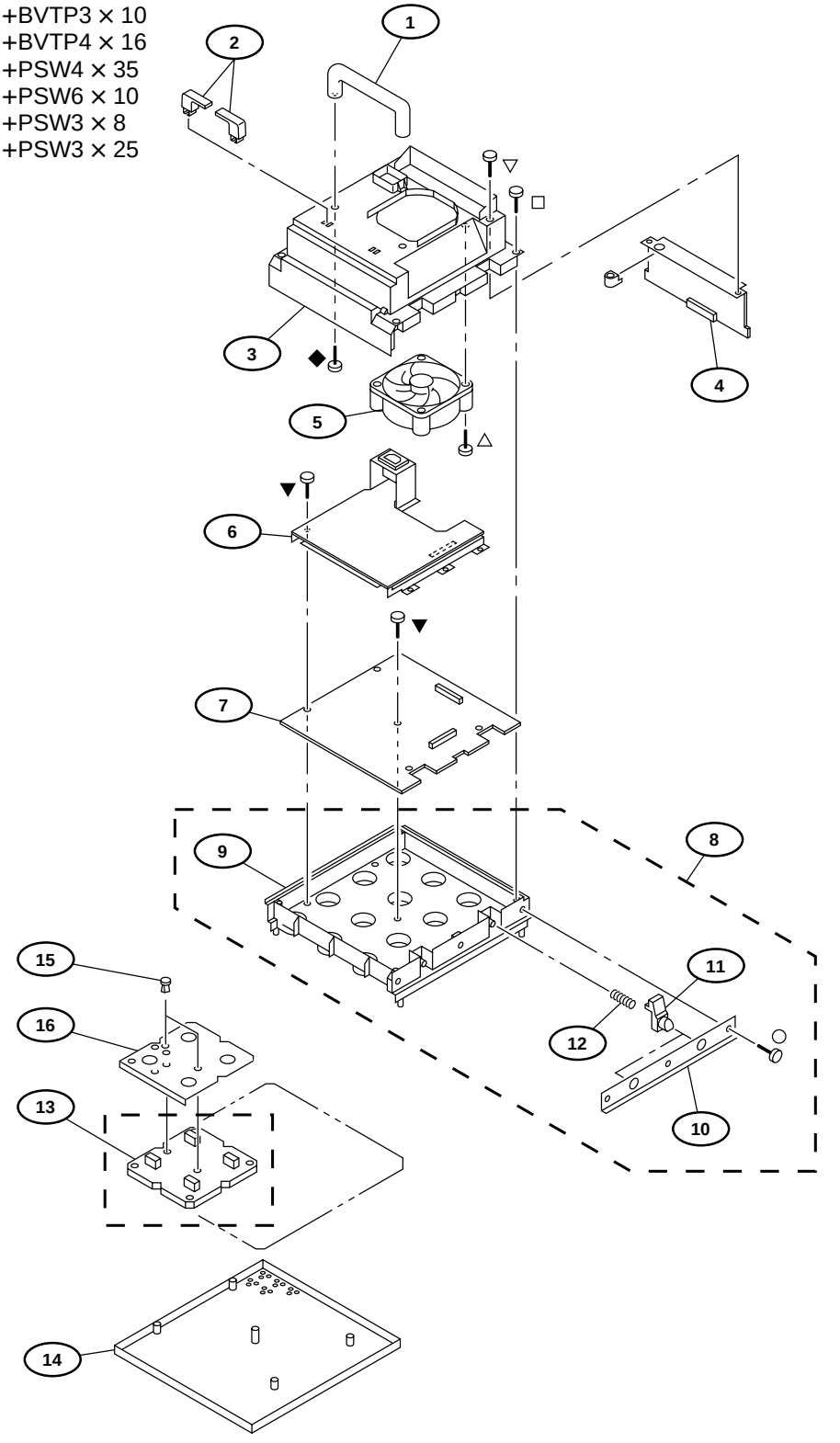
NEW
LDU-1540S : S/N 1003498 and Higher
LDU-1540L : S/N 1002491 and Higher



Ref.No.	Part No.	Description	Remark
1	* 4-063-312-01	HANDLE (SQUARE TYPE)	
	* 4-070-089-01	HANDLE (ROUND TYPE)	
2	4-316-003-00	HOLDER, CORD	
3	* 4-064-806-02	PLATE, VALVE	
4	* 4-063-308-02	COVER, REAR	
5	* 4-063-315-01	LAMP COVER	
6	* A-1275-156-A	Q BOARD, COMPLETE	
7	1-698-787-11	FAN, DC (92 SQUARE)	
8	1-468-298-16	G COMPL (APS-102)	
9	* A-1135-946-A	B BOARD, COMPLETE	
10	* 4-063-307-02	CABINET	
11	* 4-063-314-01	STOPPER	
12	4-063-309-01	BRACKET, UNIT	
13	4-063-319-01	SPRING, COMPRESSION	
14	A-1501-301-A	CELL ASSY (OLD)	
	A-1501-235-A	CELL ASSY (NEW)	
15	4-063-316-01	ORING	
16	4-063-310-23	LOUVER (LDU-1530S/1540S (OLD))	
	4-063-311-11	LOUVER (LDU-1530L/1540L (OLD))	
	4-071-786-01	LOUVER (LDU-1540S (NEW))	
	4-063-310-23	LOUVER (LDU-1540L (NEW))	
17	4-064-851-02	SCREW (+B M3)	

5-1. Chassis (LDU-1515)

○ : 7-685-647-79 +BVTP3 × 10
□ : 7-685-663-79 +BVTP4 × 16
△ : 7-682-969-09 +PSW4 × 35
◆ : 7-682-974-11 +PSW6 × 10
▽ : 7-682-948-09 +PSW3 × 8
▼ : 7-682-954-01 +PSW3 × 25



Ref.No.		Part No.	Description	Remark
1	*	4-070-089-01	HANDLE	
2		4-316-003-00	HOLDER, CORD	
3	*	4-063-308-11	COVER, REAR	
4	*	A-1275-189-A	Q COMPL	
5		1-698-696-31	FAN, DC	
6		1-468-298-16	G COMPL (APS-102)	
7	*	A-1136-064-A	B COMPL	
8		X-4037-293-1	CABINET SUB ASSY	
9	*	4-063-307-11	CABINET	
10	*	4-063-314-01	STOPPER	
11		4-063-309-01	BRACKET, UNIT	
12		4-063-319-01	SPRING, COMPRESSION	
13	*	A-1335-124-A	C COMPL	
14	*	X-4037-294-1	LOUVER ASSY	
15		3-531-576-11	RIVET	
16	*	4-072-885-01	GUARD, PWB C	

G

Section 6
Electrical Parts List

NOTE:

The components identified marked ⚠ are critical for safety.
Replace only with the part number specified.

Les composants identifiés par la marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

- When replacing parts of LDU-1530L/1530S, use the parts shown by “OLD”
- Items marked “ * ” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.

RESISTORS
- All resistors are in ohms.
- F: nonflammable
- METAL: Metal-film resistor
- METAL OXIDE: Metal oxide-film resistor

【使用上の注意】

⚠印の部品は , 安全性を維持するために , 重要な部品です。従って交換時は , 必ず指定の部品を使用してください。

- LDU-1530L/1530Sの部品交換時には (OLD) の部品を使用してください。
- ＊印の部品は，オーダー部品のため常時在庫しておりません。受注して供給できるまで日数を要します。
- ここに記載されている部品は，補修部品であるため，回路図及びセットについている部品と異なる場合があります。
- 抵抗の単位Ωは省略してあります。
  Remark 欄の F は不燃性抵抗を示します。
  METAL : 金属被膜抵抗
  METAL OXIDE : 酸化被膜抵抗

- OLD
  LDU-1540S : Up to S/N 1003497
  LDU-1540L : Up to S/N 1002490
- NEW
  LDU-1540S : S/N 1003498 and Higher
  LDU-1540L : S/N 1002491 and Higher

Ref.No.	Part No.	Description			Remark
	1-468-298-16	G COMPL (APS-102) *********			
	1-533-217-31	FUSE HOLDER			
	7-682-648-09	SCREW +PS3X8 (SWCH.CZN-N)			
	7-682-661-09	SCREW M4X8			
	7-685-646-79	SCREW +BV3X8 TYPE2 IT3B			
		< CAPACITOR >			
C101	⚠1-117-916-51	FILM	0.22µF	20%	250V
C102	⚠1-117-916-51	FILM	0.22µF	20%	250V
C103	⚠1-113-920-91	CERAMIC	2200PF	20%	
C104	⚠1-113-920-91	CERAMIC	2200PF	20%	
C106	⚠1-113-920-91	CERAMIC	2200PF	20%	
C107	⚠1-117-583-11	FILM	1.0µF		450V
C108	1-110-506-51	FILM	0.47µF	10%	450V
C109	1-117-583-11	FILM	1.0µF		450V
C110	1-117-583-11	FILM	1.0µF		450V
C111	1-110-970-11	ELECT	150µF	20%	450V
C113	1-130-467-00	FILM	470PF	5%	50V
C114	1-130-467-00	FILM	470PF	5%	50V
C115	1-130-471-91	FILM	1000PF		50V
C116	1-130-471-91	FILM	1000PF		50V
C117	1-113-504-11	FILM	0.0082µF	700V	
C118	1-115-802-11	ELECT	56µF	20%	50V
C119	1-115-802-11	ELECT	56µF	20%	50V
C120	1-130-471-91	FILM	1000PF		50V
C122	1-136-165-00	FILM	0.1µF	5%	50V
C123	1-107-910-11	ELECT	100µF	20%	35V
C124	1-130-483-00	FILM	0.01µF	5%	50V
C125	1-136-169-00	FILM	0.22µF	5%	50V
C126	1-130-471-91	FILM	1000PF		50V
C133	1-117-975-91	CERAMIC	330PF		50V
C134	1-130-475-91	FILM	2200PF		50V
C135	1-130-467-00	FILM	470PF	5%	50V
C136	1-130-471-91	FILM	1000PF		50V
C137	1-130-483-00	FILM	0.01µF	5%	50V
C138	1-136-165-00	FILM	0.1µF	5%	50V
C139	1-136-165-00	FILM	0.1µF	5%	50V
C140	1-136-165-00	FILM	0.1µF	5%	50V
C141	1-136-165-00	FILM	0.1µF	5%	50V
C142	1-136-165-00	FILM	0.1MF	5%	50V
C143	1-107-903-11	ELECT	2.2µF	20%	50V
C144	1-130-471-91	FILM	1000PF		50V
C201	1-136-177-00	FILM	1.0µF	5%	50V
C202	1-136-177-00	FILM	1.0µF	5%	50V
C203	1-115-737-11	ELECT	1000µF	20%	10V
C204	1-115-737-11	ELECT	1000µF	20%	10V
C205	1-115-802-11	ELECT	56µF	20%	50V
C206	1-115-756-11	ELECT	270µF	20%	16V
C207	1-115-747-31	ELECT	6800µF		10V
C208	1-115-747-31	ELECT	6800µF		10V
C209	1-136-165-00	FILM	0.1MF	5%	50V
C210	1-115-737-11	ELECT	1000µF	20%	10V
C211	1-115-737-11	ELECT	1000µF	20%	10V
C213	1-130-483-00	FILM	0.01µF	5%	50V
C214	1-136-165-00	FILM	0.1MF	5%	50V
C215	1-107-906-11	ELECT	10µF	20%	50V
C216	1-136-165-00	FILM	0.1MF	5%	50V

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Ref.No.	Part No.	Description			Remark
C217	1-136-169-00	FILM	0.22µF	5%	50V
C218	1-130-483-00	FILM	0.01µF	5%	50V
C219	1-136-165-00	FILM	0.1MF	5%	50V
C220	1-136-165-00	FILM	0.1MF	5%	50V
C221	1-115-712-91	ELECT	820µF		6.3V
C223	1-115-712-91	ELECT	820µF		6.3V
C224	1-130-471-91	FILM	1000PF		50V
C225	1-115-706-11	ELECT	220µF	20%	6.3V
C226	1-136-169-00	FILM	0.22µF	5%	50V
C227	1-136-169-00	FILM	0.22µF	5%	50V
	< CONNECTOR >				
CN151	1-691-960-11	CONNECTOR PIN(B2P3-VH-B)			
CN201	* 1-785-071-11	CONNECTOR 30P			
	< DIODE >				
D101	⚠8-719-510-51	DIODE D3SB60F			
D102	8-719-054-59	DIODE FSF05A60			
D103	8-719-911-19	DIODE 1SS119-25TD			
D104	8-719-911-19	DIODE 1SS119-25TD			
D105	8-719-200-91	DIODE 11EQS10-TA1			
D106	8-719-921-20	DIODE 1SS119-25TD			
D107	8-719-911-19	DIODE 1SS119-25TD			
D111	8-719-050-83	DIODE RB441Q-40-40T-72			
D113	8-719-911-19	DIODE 1SS119-25TD			
D114	8-719-110-35	DIODE RD13ES-T1B1			
D115	8-719-911-19	DIODE 1SS119-25TD			
D202	8-719-200-91	DIODE 11EQS10-TA1			
D203	8-719-200-91	DIODE 11EQS10-TA1			
D204	8-719-055-40	DIODE FCQ30A04			
D205	8-719-055-40	DIODE FCQ30A04			
D206	8-719-055-40	DIODE FCQ30A04			
D207	8-719-911-19	DIODE 1SS119-25TD			
D208	8-719-911-19	DIODE 1SS119-25TD			
D209	8-719-200-91	DIODE 11EQS10-TA1			
D210	8-719-200-91	DIODE 11EQS10-TA1			
D211	8-719-109-80	DIODE RD4.7ES-T1B1			
D212	8-719-109-96	DIODE RD6.8ES-T1B1			
D213	8-719-911-19	DIODE 1SS119-25TD			
D214	8-719-911-19	DIODE 1SS119-25TD			
D215	8-719-109-74	DIODE RD4.3ES-T1B			
	< FUSE >				
F101	⚠1-576-230-11	FUSE(H.B.C) 250V/3.15A			
	< IC >				
IC101	8-759-332-30	IC MC34262P			
IC102	8-759-321-95	IC HA17431PA-TZ			
IC103	8-759-470-07	IC CXA8038AP			
IC201	8-759-246-78	IC PQ05RF14			
IC202	8-759-938-12	IC BA10324A			
IC203	8-759-321-95	IC HA17431PA-TZ			
	< COIL >				
L101	1-416-062-11	COIL,CHOKE PFC EG3310139			
L103	1-416-061-11	COIL,CHOKE (SK-10M-5Y)			
L201	1-411-964-11	COIL,CHOKE (AMS-12S-N-3T)			
L202	1-411-964-11	COIL,CHOKE (AMS-12S-N-3T)			
L203	1-416-616-11	COIL,CHOKE (CH71512) 2.2µH			
L204	1-416-616-11	COIL,CHOKE (CH71512) 2.2µH			
L205	1-406-703-21	COIL,CHOKE (PC8-3R3M)			
L206	1-416-616-11	COIL,CHOKE (CH71512) 2.2µH			

Ref.No.	Part No.	Description			Remark
	< LINE FILTER >				
LF101	⚠1-429-365-11	LFT SS28V-30030A			
LF102	⚠1-424-678-11	LFT SS28V-10250			
	< PHOTO COUPLER >				
PH101	8-749-010-64	PHOTO COUPLER PC123FY2			
PH102	8-749-010-64	PHOTO COUPLER PC123FY2			
	< TRANSISTOR >				
Q101	8-729-033-55	FET 2SK2364(1)			
Q102	8-729-114-69	TRANSISTOR 2SB810TP-J			
Q103	8-729-114-69	TRANSISTOR 2SB810TP-J			
Q104	8-729-033-55	FET 2SK2364(1)			
Q105	8-729-033-55	FET 2SK2364(1)			
Q106	8-729-173-38	TRANSISTOR 2SA1175TP-J			
Q111	8-729-029-21	TRANSISTOR DTA114ESA-TP			
Q112	8-729-029-66	TRANSISTOR DTC114ESA-TP			
Q113	8-729-931-14	TRANSISTOR 2SD1858-Q-TV2			
Q201	8-729-114-69	TRANSISTOR 2SB810TP-J			
Q202	8-729-119-78	TRANSISTOR 2SC2785TP-J			
	< RESISTOR >				
R101	⚠1-244-937-91	CARBON	470K	5%	1/2W
R102	1-249-425-11	CARBON	4.7K	5%	1/4W
R103	1-216-361-00	METAL OXIDE	0.22	5%	2W
R106	1-215-903-11	METAL OXIDE	68K	5%	2W
R107	1-215-903-11	METAL OXIDE	68K	5%	2W
R108	1-249-401-11	CARBON	47	5%	1/4W
R109	1-249-393-11	CARBON	10	5%	1/4W
R110	1-249-425-11	CARBON	4.7K	5%	1/4W
R111	1-249-425-11	CARBON	4.7K	5%	1/4W
R112	1-249-386-11	CARBON	4.7	5%	1/4W
R113	1-249-386-11	CARBON	4.7	5%	1/4W
R114	1-247-863-91	CARBON	22K	5%	1/4W
R115	1-247-863-91	CARBON	22K	5%	1/4W
R116	1-216-341-11	METAL OXIDE	0.22	5%	1W
R117	1-249-386-11	CARBON	4.7	5%	1/4W
R118	1-247-863-91	CARBON	22K	5%	1/4W
R120	1-247-895-91	CARBON	470K	5%	1/4W
R121	1-247-895-91	CARBON	470K	5%	1/4W
R122	1-247-895-91	CARBON	470K	5%	1/4W
R123	1-249-431-11	CARBON	15K	5%	1/4W
R124	1-247-903-00	CARBON	1.0M	5%	1/4W
R125	1-247-903-00	CARBON	1.0M	5%	1/4W
R126	1-249-430-11	CARBON	12K	5%	1/4W
R127	1-249-429-11	CARBON	10K	5%	1/4W
R129	1-247-807-31	CARBON	100	5%	1/4W
R130	1-247-863-91	CARBON	22K	5%	1/4W
R140	1-249-431-11	CARBON	15K	5%	1/4W
R141	1-249-425-11	CARBON	4.7K	5%	1/4W
R142	1-249-429-11	CARBON	10K	5%	1/4W
R143	1-249-425-11	CARBON	4.7K	5%	1/4W
R145	1-247-863-91	CARBON	22K	5%	1/4W
R146	1-249-401-11	CARBON	47	5%	1/4W
R147	1-249-417-11	CARBON	1.0K	5%	1/4W
R148	1-249-406-11	CARBON	120	5%	1/4W
R149	1-249-421-11	CARBON	2.2K	5%	1/4W
R150	1-247-807-31	CARBON	100	5%	1/4W
R151	1-247-863-91	CARBON	22K	5%	1/4W
R152	1-249-417-11	CARBON	1.0K	5%	1/4W
R153	1-215-903-11	METAL OXIDE	68K	5%	2W
R154	1-215-903-11	METAL OXIDE	68K	5%	2W

Ref.No.	Part No.	Description			Remark
R155	1-247-807-31	CARBON	100	5%	1/4W
R156	1-247-903-00	CARBON	1.0M	5%	1/4W
R157	1-247-903-00	CARBON	1.0M	5%	1/4W
R158	1-247-863-91	CARBON	22K	5%	1/4W
R159	1-247-863-91	CARBON	22K	5%	1/4W
R160	1-249-421-11	CARBON	2.2K	5%	1/4W
R201	1-247-807-31	CARBON	100	5%	1/4W
R202	1-247-807-31	CARBON	100	5%	1/4W
R203	1-247-815-91	CARBON	220	5%	1/4W
R204	1-247-807-31	CARBON	100	5%	1/4W
R206	1-249-425-11	CARBON	4.7K	5%	1/4W
R207	1-249-417-11	CARBON	1.0K	5%	1/4W
R208	1-247-807-31	CARBON	100	5%	1/4W
R209	1-247-815-91	CARBON	220	5%	1/4W
R210	1-247-807-31	CARBON	100	5%	1/4W
R211	1-249-429-11	CARBON	10K	5%	1/4W
R212	1-215-433-00	METAL	3.3K	1%	1/4W
R213	1-215-420-00	METAL	910	1%	1/4W
R215	1-215-437-00	METAL	4.7K	1%	1/4W
R216	1-215-437-00	METAL	4.7K	1%	1/4W
R217	1-249-417-11	CARBON	1.0K	5%	1/4W
R218	1-249-429-11	CARBON	10K	5%	1/4W
R219	1-249-429-11	CARBON	10K	5%	1/4W
R220	1-249-417-11	CARBON	1.0K	5%	1/4W
R221	1-247-807-31	CARBON	100	5%	1/4W
R222	1-247-807-31	CARBON	100	5%	1/4W
R223	1-249-421-11	CARBON	2.2K	5%	1/4W
R224	1-249-425-11	CARBON	4.7K	5%	1/4W
R225	1-249-425-11	CARBON	4.7K	5%	1/4W
R226	1-249-425-11	CARBON	4.7K	5%	1/4W
R228	1-249-421-11	CARBON	2.2K	5%	1/4W
R229	1-249-425-11	CARBON	4.7K	5%	1/4W
R230	1-249-425-11	CARBON	4.7K	5%	1/4W
R231	1-249-429-11	CARBON	10K	5%	1/4W
R232	1-249-441-11	CARBON	100K	5%	1/4W
		< VARIABLE RESISTOR >			
RV101	1-241-763-11	ADJ,CARBON	4.7K		
RV103	1-241-764-11	ADJ,CARBON	10K		
RV201	1-241-763-11	ADJ,CARBON	4.7K		
		<TRANSFORMER >			
T101	⚠1-431-771-11	TRANSFORMER, CVT FEE40M AL23			
T102	1-426-931-11	TRANSFORMER, DT U070304Z			
		< THERMISTOR >			
TH101	1-810-965-11	THERMISTOR 5D-11			
TH201	1-801-829-11	THERMISTOR (PTH8L07BA0R9M)			
TH202	1-801-829-11	THERMISTOR (PTH8L07BA0R9M)			
THP101	1-809-789-71	THERMISTOR			
		< VARISTOR >			
VDR101	⚠1-808-927-22	VARISTOR NV470D10-TB2			
VDR102	⚠1-809-909-22	VARISTOR NV270D03-TB2			

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Ref.No.	Part No.	Description			Remark
	* A-1135-946-A	B COMPL (LDU-1530S/1530L1540S/1540L)			
		*********			
	* A-1136-064-A	B COMPL (LDU-1515)			
		*********			
	4-066-918-01	HEAT SINK (NEW)			
		<CAPACITOR>			
C1001	1-163-235-11	CERAMIC CHIP 22PF		5%	50V
C1002	1-163-235-11	CERAMIC CHIP 22PF		5%	50V
C1003	1-163-235-11	CERAMIC CHIP 22PF		5%	50V
C1004	1-107-682-11	CERAMIC CHIP 1MF		10%	16V
C1005	1-163-235-11	CERAMIC CHIP 22PF		5%	50V
C1006	1-164-690-91	CERAMIC CHIP 0.0022MF		5%	50V
C1007	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1008	1-163-235-11	CERAMIC CHIP 22PF		5%	50V
C1009	1-163-235-11	CERAMIC CHIP 22PF		5%	50V
C1011	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1012	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1013	1-164-690-91	CERAMIC CHIP 0.0022MF		5%	50V
C1014	1-164-690-91	CERAMIC CHIP 0.0022MF		5%	50V
C1015	1-164-690-91	CERAMIC CHIP 0.0022MF		5%	50V
C1016	1-164-690-91	CERAMIC CHIP 0.0022MF		5%	50V
C1017	1-164-690-91	CERAMIC CHIP 0.0022MF		5%	50V
C1018	1-164-690-91	CERAMIC CHIP 0.0022MF		5%	50V
C1019	1-164-690-91	CERAMIC CHIP 0.0022MF		5%	50V
C1020	1-164-690-91	CERAMIC CHIP 0.0022MF		5%	50V
C1021	1-164-690-91	CERAMIC CHIP 0.0022MF		5%	50V
C1022	1-164-690-91	CERAMIC CHIP 0.0022MF		5%	50V
C1023	1-164-690-91	CERAMIC CHIP 0.0022MF		5%	50V
C1024	1-164-690-91	CERAMIC CHIP 0.0022MF		5%	50V
C1025	1-164-690-91	CERAMIC CHIP 0.0022MF		5%	50V
C1026	1-164-690-91	CERAMIC CHIP 0.0022MF		5%	50V
C1027	1-164-690-91	CERAMIC CHIP 0.0022MF		5%	50V
C1028	1-164-690-91	CERAMIC CHIP 0.0022MF		5%	50V
C1029	1-164-690-91	CERAMIC CHIP 0.0022MF		5%	50V
C1030	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1031	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1032	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1033	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1034	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1035	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1036	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1037	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1038	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1039	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1040	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1041	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1042	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1043	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1044	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1045	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1046	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1047	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1048	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1049	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1050	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1051	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1052	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1053	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1054	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1055	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1056	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1057	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1058	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V
C1059	1-115-339-11	CERAMIC CHIP 0.1MF		10%	50V

B

Ref.No.	Part No.	Description	Remark
C1060	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1061	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1064	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1065	1-126-204-11	ELECT CHIP 47MF 20% 16V	
C1066	1-126-204-11	ELECT CHIP 47MF 20% 16V	
C1067	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1068	1-126-204-11	ELECT CHIP 47MF 20% 16V	
C1069	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1070	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1071	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1072	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1073	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1074	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1075	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1076	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1077	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1078	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1079	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1080	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1081	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1082	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1083	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1084	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1085	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1086	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1087	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1088	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1089	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1090	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1091	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1092	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1093	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1094	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1095	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1096	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1097	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1098	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1099	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1100	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1101	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1102	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1103	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1104	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1105	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1106	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1107	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1108	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1109	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1110	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1111	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1112	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1113	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1114	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1115	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1116	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1117	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1118	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1119	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1120	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1121	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1122	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1123	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1124	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1125	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1126	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1127	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1128	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1129	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1130	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1131	1-126-204-11	ELECT CHIP 47MF 20% 16V	
C1132	1-115-339-11	CERAMIC CHIP 0.1MF 10% 50V	
C1133	1-126-204-11	ELECT CHIP 47MF 20% 16V	
		<CONNECTOR>	
CN1001	1-691-855-11	CONNECTOR, BOARD TO BOARD 60P	
CN1002	* 1-785-137-11	SOCKET, CONNECTOR (RECEPTACLE)	
CN1003	* 1-785-137-11	SOCKET, CONNECTOR (RECEPTACLE)	
CN1004	* 1-785-137-11	SOCKET, CONNECTOR (RECEPTACLE)	
CN1005	* 1-785-137-11	SOCKET, CONNECTOR (RECEPTACLE)	
CN1006	* 1-785-137-11	SOCKET, CONNECTOR (RECEPTACLE)	
CN1007	* 1-785-137-11	SOCKET, CONNECTOR (RECEPTACLE)	
CN1008	* 1-785-137-11	SOCKET, CONNECTOR (RECEPTACLE)	
CN1009	* 1-785-137-11	SOCKET, CONNECTOR (RECEPTACLE)	
CN1010	* 1-785-137-11	SOCKET, CONNECTOR (RECEPTACLE)	
CN1011	* 1-785-137-11	SOCKET, CONNECTOR (RECEPTACLE)	
CN1012	* 1-785-137-11	SOCKET, CONNECTOR (RECEPTACLE)	
CN1013	* 1-785-137-11	SOCKET, CONNECTOR (RECEPTACLE)	
CN1014	* 1-785-137-11	SOCKET, CONNECTOR (RECEPTACLE)	
CN1015	* 1-785-137-11	SOCKET, CONNECTOR (RECEPTACLE)	
CN1016	* 1-785-137-11	SOCKET, CONNECTOR (RECEPTACLE)	
CN1017	* 1-785-137-11	SOCKET, CONNECTOR (RECEPTACLE)	
CN1018	1-785-084-11	RECEPTACLE,MULTI CONNECTOR30P	
CNI1101	1-251-047-11	SOCKET, IC	
		<DIODE>	
D1001	8-719-066-98	DIODE RB051L-40TE25	
		<FILTER>	
FL1001	1-239-903-11	FILTER, CHIP EMI	
FL1002	1-414-551-11	FERRITE 0UH	
FL1003	1-414-551-11	FERRITE 0UH	
FL1004	1-414-551-11	FERRITE 0UH	
FL1005	1-414-551-11	FERRITE 0UH	
FL1006	1-239-903-11	FILTER, CHIP EMI	
FL1007	1-239-899-21	FILTER, CHIP EMI	
FL1008	1-239-899-21	FILTER, CHIP EMI	
FL1009	1-239-899-21	FILTER, CHIP EMI	
FL1010	1-239-899-21	FILTER, CHIP EMI	
FL1011	1-239-899-21	FILTER, CHIP EMI	
FL1012	1-239-899-21	FILTER, CHIP EMI	
FL1013	1-239-899-21	FILTER, CHIP EMI	
FL1014	1-239-899-21	FILTER, CHIP EMI	
FL1015	1-239-899-21	FILTER, CHIP EMI	
FL1016	1-239-899-21	FILTER, CHIP EMI	
FL1017	1-239-899-21	FILTER, CHIP EMI	
FL1018	1-239-899-21	FILTER, CHIP EMI	
FL1019	1-239-899-21	FILTER, CHIP EMI	
FL1020	1-239-899-21	FILTER, CHIP EMI	
FL1021	1-239-899-21	FILTER, CHIP EMI	
FL1022	1-239-899-21	FILTER, CHIP EMI	
FL1023	1-239-899-21	FILTER, CHIP EMI	
FL1024	1-239-899-21	FILTER, CHIP EMI	
FL1025	1-239-899-21	FILTER, CHIP EMI	
FL1026	1-239-899-21	FILTER, CHIP EMI	
FL1027	1-239-899-21	FILTER, CHIP EMI	
FL1028	1-239-899-21	FILTER, CHIP EMI	
FL1029	1-239-899-21	FILTER, CHIP EMI	
FL1030	1-239-899-21	FILTER, CHIP EMI	
FL1031	1-239-899-21	FILTER, CHIP EMI	

Ref.No.	Part No.	Description	Remark
FL1032	1-239-899-21	FILTER, CHIP EMI	
FL1033	1-239-899-21	FILTER, CHIP EMI	
FL1034	1-239-899-21	FILTER, CHIP EMI	
FL1035	1-239-899-21	FILTER, CHIP EMI	
FL1036	1-239-899-21	FILTER, CHIP EMI	
FL1037	1-239-899-21	FILTER, CHIP EMI	
FL1038	1-239-899-21	FILTER, CHIP EMI	
FL1039	1-239-899-21	FILTER, CHIP EMI	
FL1040	1-239-899-21	FILTER, CHIP EMI	
	<IC>		
IC1001	8-759-283-49	IC HD6413002F10	
IC1002	8-759-049-70	IC SN74HC138APW-E05	
IC1003	8-759-049-70	IC SN74HC138APW-E05	
IC1004	8-759-049-80	IC SN74HC541APW-E05	
IC1005	8-759-049-80	IC SN74HC541APW-E05	
IC1006	8-759-049-80	IC SN74HC541APW-E05	
IC1007	8-759-049-80	IC SN74HC541APW-E05	
IC1008	8-759-049-70	IC SN74HC138APW-E05	
IC1009	8-759-049-70	IC SN74HC138APW-E05	
IC1010	8-759-055-21	IC HN58C66FP-25 (OLD)	
IC1010	8-759-584-68	IC HN58V66AFP-10Z (NEW/LDU-1515)	
IC1011	8-759-359-91	IC LH5116N4	
IC1012	* 8-759-570-69	IC HN27C1024HCC-10-LU110 (OLD)	
IC1012	* 8-759-657-10	IC HN27C1024HCC-10-LU130 (NEW/LDU-1515)	
IC1013	8-759-518-38	IC PST572CMT	
IC1014	8-759-234-20	IC TC7S08F	
IC1015	8-759-049-55	IC SN74HC00APW-E05	
IC1016	8-759-049-92	IC SN74HC14APW-E05	
IC1017	8-752-083-82	IC CXA2108Q (OLD)	
IC1017	8-752-090-22	IC CXA2108AQ (NEW/LDU-1515)	
IC1018	8-752-083-82	IC CXA2108Q (OLD)	
IC1018	8-752-090-22	IC CXA2108AQ (NEW/LDU-1515)	
IC1019	8-752-083-82	IC CXA2108Q (OLD)	
IC1019	8-752-090-22	IC CXA2108AQ (NEW/LDU-1515)	
IC1020	8-752-083-82	IC CXA2108Q (OLD)	
IC1020	8-752-090-22	IC CXA2108AQ (NEW/LDU-1515)	
IC1021	8-752-083-82	IC CXA2108Q (OLD)	
IC1021	8-752-090-22	IC CXA2108AQ (NEW/LDU-1515)	
IC1022	8-752-083-82	IC CXA2108Q (OLD)	
IC1022	8-752-090-22	IC CXA2108AQ (NEW/LDU-1515)	
IC1023	8-752-083-82	IC CXA2108Q (OLD)	
IC1023	8-752-090-22	IC CXA2108AQ (NEW/LDU-1515)	
IC1024	8-752-083-82	IC CXA2108Q (OLD)	
IC1024	8-752-090-22	IC CXA2108AQ (NEW/LDU-1515)	
IC1025	8-752-083-82	IC CXA2108Q (OLD)	
IC1025	8-752-090-22	IC CXA2108AQ (NEW/LDU-1515)	
IC1026	8-752-083-82	IC CXA2108Q (OLD)	
IC1026	8-752-090-22	IC CXA2108AQ (NEW/LDU-1515)	
IC1027	8-752-083-82	IC CXA2108Q (OLD)	
IC1027	8-752-090-22	IC CXA2108AQ (NEW/LDU-1515)	
IC1028	8-752-083-82	IC CXA2108Q (OLD)	
IC1028	8-752-090-22	IC CXA2108AQ (NEW/LDU-1515)	
IC1029	8-752-083-82	IC CXA2108Q (OLD)	
IC1029	8-752-090-22	IC CXA2108AQ (NEW/LDU-1515)	
IC1030	8-752-083-82	IC CXA2108Q (OLD)	
IC1030	8-752-090-22	IC CXA2108AQ (NEW/LDU-1515)	
IC1031	8-752-083-82	IC CXA2108Q (OLD)	
IC1031	8-752-090-22	IC CXA2108AQ (NEW/LDU-1515)	
IC1032	8-752-083-82	IC CXA2108Q (OLD)	
IC1032	8-752-090-22	IC CXA2108AQ (NEW/LDU-1515)	
IC1033	8-759-035-93	IC SC7S32F	
IC1034	8-759-049-58	IC SN74HC04APW-E05	
IC1035	8-759-049-80	IC SN74HC541APW-E05	
IC1036	8-759-050-36	IC SN74HC540APW-E05	
IC1037	8-759-049-80	IC SN74HC541APW-E05	
IC1038	8-759-050-36	IC SN74HC540APW-E05	
IC1039	8-759-049-80	IC SN74HC541APW-E05	
IC1040	8-759-049-80	IC SN74HC541APW-E05	
IC1041	8-759-049-80	IC SN74HC541APW-E05	
	<TRANSISTOR>		
Q1001	8-729-904-72	TRANSISTOR DTD143EK	
Q1002	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1003	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1004	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1005	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1006	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1007	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1008	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1009	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1010	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1011	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1012	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1013	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1014	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1015	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1016	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1017	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1018	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1019	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1020	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1021	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1022	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1023	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1024	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1025	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1026	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1027	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1028	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1029	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1030	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1031	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1032	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1033	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1034	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1035	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1036	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1037	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1038	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1039	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1040	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1041	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1042	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1043	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1044	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1045	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1046	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1047	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1048	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1049	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1050	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1051	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1052	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1053	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1054	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1055	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1056	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1057	8-729-015-55	TRANSISTOR 2SJ197-T1	
Q1058	8-729-015-55	TRANSISTOR 2SJ197-T1	

Ref.No.	Part No.	Description			Remark
Q1059	8-729-015-55	TRANSISTOR 2SJ197-T1			
Q1060	8-729-015-55	TRANSISTOR 2SJ197-T1			
Q1061	8-729-015-55	TRANSISTOR 2SJ197-T1			
Q1062	8-729-015-55	TRANSISTOR 2SJ197-T1			
Q1063	8-729-015-55	TRANSISTOR 2SJ197-T1			
Q1064	8-729-015-55	TRANSISTOR 2SJ197-T1			
Q1065	8-729-015-55	TRANSISTOR 2SJ197-T1			
Q1066	8-729-904-72	TRANSISTOR DTD143EK			
Q1067	8-729-923-45	TRANSISTOR 2SB1308-T101-QR			
Q1068	8-729-923-45	TRANSISTOR 2SB1308-T101-QR			
	<RESISTOR>				
R1001	1-216-025-91	RES,CHIP	100	5%	1/10W
R1002	1-216-025-91	RES,CHIP	100	5%	1/10W
R1003	1-216-025-91	RES,CHIP	100	5%	1/10W
R1004	1-216-025-91	RES,CHIP	100	5%	1/10W
R1005	1-216-025-91	RES,CHIP	100	5%	1/10W
R1006	1-216-025-91	RES,CHIP	100	5%	1/10W
R1007	1-216-025-91	RES,CHIP	100	5%	1/10W
R1008	1-216-025-91	RES,CHIP	100	5%	1/10W
R1009	1-216-025-91	RES,CHIP	100	5%	1/10W
R1010	1-216-025-91	RES,CHIP	100	5%	1/10W
R1011	1-216-025-91	RES,CHIP	100	5%	1/10W
R1012	1-216-025-91	RES,CHIP	100	5%	1/10W
R1013	1-216-025-91	RES,CHIP	100	5%	1/10W
R1014	1-216-025-91	RES,CHIP	100	5%	1/10W
R1015	1-216-025-91	RES,CHIP	100	5%	1/10W
R1016	1-216-025-91	RES,CHIP	100	5%	1/10W
R1017	1-216-025-91	RES,CHIP	100	5%	1/10W
R1018	1-216-025-91	RES,CHIP	100	5%	1/10W
R1019	1-216-025-91	RES,CHIP	100	5%	1/10W
R1020	1-216-025-91	RES,CHIP	100	5%	1/10W
R1021	1-216-025-91	RES,CHIP	100	5%	1/10W
R1022	1-216-025-91	RES,CHIP	100	5%	1/10W
R1023	1-216-025-91	RES,CHIP	100	5%	1/10W
R1024	1-216-025-91	RES,CHIP	100	5%	1/10W
R1025	1-216-025-91	RES,CHIP	100	5%	1/10W
R1026	1-216-025-91	RES,CHIP	100	5%	1/10W
R1027	1-216-025-91	RES,CHIP	100	5%	1/10W
R1028	1-216-025-91	RES,CHIP	100	5%	1/10W
R1029	1-216-025-91	RES,CHIP	100	5%	1/10W
R1030	1-216-025-91	RES,CHIP	100	5%	1/10W
R1031	1-216-025-91	RES,CHIP	100	5%	1/10W
R1032	1-216-025-91	RES,CHIP	100	5%	1/10W
R1033	1-216-025-91	RES,CHIP	100	5%	1/10W
R1034	1-216-025-91	RES,CHIP	100	5%	1/10W
R1035	1-216-025-91	RES,CHIP	100	5%	1/10W
R1036	1-216-025-91	RES,CHIP	100	5%	1/10W
R1037	1-216-025-91	RES,CHIP	100	5%	1/10W
R1038	1-216-025-91	RES,CHIP	100	5%	1/10W
R1039	1-216-025-91	RES,CHIP	100	5%	1/10W
R1040	1-216-025-91	RES,CHIP	100	5%	1/10W
R1041	1-216-025-91	RES,CHIP	100	5%	1/10W
R1042	1-216-025-91	RES,CHIP	100	5%	1/10W
R1043	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1044	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1045	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1046	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1047	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1048	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1049	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1050	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1051	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1052	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1053	1-216-097-91	RES,CHIP	100K	5%	1/10W

Ref.No.	Part No.	Description			Remark
R1054	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1055	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1056	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1057	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1058	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1059	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1060	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1061	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1062	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1063	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1064	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1065	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1066	1-216-695-11	METAL CHIP	68K	0.50%	1/10W
R1067	1-216-691-11	METAL CHIP	47K	0.50%	1/10W
R1074	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1075	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1076	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1077	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1078	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1079	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1080	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1081	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1082	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1083	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1084	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1085	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1086	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1087	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1088	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1089	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1090	1-216-677-11	METAL CHIP	12K	0.50%	1/10W
R1091	1-216-695-11	METAL CHIP	68K	0.50%	1/10W
R1092	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1093	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1094	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1095	1-216-295-91	SHORT	0		
R1096	1-216-691-11	METAL CHIP	47K	0.50%	1/10W
R1097	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1098	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1099	1-216-121-91	RES,CHIP	1M	5%	1/10W
R1100	1-216-295-91	SHORT	0		
R1101	1-216-121-91	RES,CHIP	1M	5%	1/10W
R1102	1-216-295-91	SHORT	0		
R1103	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1104	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1105	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1106	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1107	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1108	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1109	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1110	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1111	1-216-658-11	METAL CHIP	2K	0.50%	1/10W
R1112	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1113	1-216-658-11	METAL CHIP	2K	0.50%	1/10W
R1114	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1115	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1116	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1117	1-216-658-11	METAL CHIP	2K	0.50%	1/10W
R1118	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1119	1-216-658-11	METAL CHIP	2K	0.50%	1/10W
R1120	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1121	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1122	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1123	1-216-658-11	METAL CHIP	2K	0.50%	1/10W
R1124	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1125	1-216-658-11	METAL CHIP	2K	0.50%	1/10W

Ref.No.	Part No.	Description			Remark
R1126	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1127	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1128	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1129	1-216-658-11	METAL CHIP	2K	0.50%	1/10W
R1130	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1131	1-216-658-11	METAL CHIP	2K	0.50%	1/10W
R1132	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1133	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1134	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1135	1-216-658-11	METAL CHIP	2K	0.50%	1/10W
R1136	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1137	1-216-658-11	METAL CHIP	2K	0.50%	1/10W
R1138	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1139	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1140	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1141	1-216-658-11	METAL CHIP	2K	0.50%	1/10W
R1142	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1143	1-216-658-11	METAL CHIP	2K	0.50%	1/10W
R1144	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1145	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1146	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1147	1-216-658-11	METAL CHIP	2K	0.50%	1/10W
R1148	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1149	1-216-658-11	METAL CHIP	2K	0.50%	1/10W
R1150	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1151	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1152	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1153	1-216-658-11	METAL CHIP	2K	0.50%	1/10W
R1154	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1155	1-216-658-11	METAL CHIP	2K	0.50%	1/10W
R1156	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1157	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1158	1-216-001-00	RES,CHIP	10	5%	1/10W
R1159	1-216-001-00	RES,CHIP	10	5%	1/10W
R1160	1-216-001-00	RES,CHIP	10	5%	1/10W
R1161	1-216-001-00	RES,CHIP	10	5%	1/10W
R1162	1-216-001-00	RES,CHIP	10	5%	1/10W
R1163	1-216-001-00	RES,CHIP	10	5%	1/10W
R1164	1-216-001-00	RES,CHIP	10	5%	1/10W
R1165	1-216-001-00	RES,CHIP	10	5%	1/10W
R1166	1-216-001-00	RES,CHIP	10	5%	1/10W
R1167	1-216-001-00	RES,CHIP	10	5%	1/10W
R1168	1-216-001-00	RES,CHIP	10	5%	1/10W
R1169	1-216-001-00	RES,CHIP	10	5%	1/10W
R1170	1-216-001-00	RES,CHIP	10	5%	1/10W
R1171	1-216-001-00	RES,CHIP	10	5%	1/10W
R1172	1-216-001-00	RES,CHIP	10	5%	1/10W
R1173	1-216-001-00	RES,CHIP	10	5%	1/10W
R1174	1-216-001-00	RES,CHIP	10	5%	1/10W
R1175	1-216-001-00	RES,CHIP	10	5%	1/10W
R1176	1-216-001-00	RES,CHIP	10	5%	1/10W
R1177	1-216-001-00	RES,CHIP	10	5%	1/10W
R1178	1-216-001-00	RES,CHIP	10	5%	1/10W
R1179	1-216-001-00	RES,CHIP	10	5%	1/10W
R1180	1-216-001-00	RES,CHIP	10	5%	1/10W
R1181	1-216-001-00	RES,CHIP	10	5%	1/10W
R1182	1-216-001-00	RES,CHIP	10	5%	1/10W
R1183	1-216-001-00	RES,CHIP	10	5%	1/10W
R1184	1-216-001-00	RES,CHIP	10	5%	1/10W
R1185	1-216-001-00	RES,CHIP	10	5%	1/10W
R1186	1-216-001-00	RES,CHIP	10	5%	1/10W
R1187	1-216-001-00	RES,CHIP	10	5%	1/10W
R1188	1-216-001-00	RES,CHIP	10	5%	1/10W
R1189	1-216-001-00	RES,CHIP	10	5%	1/10W
R1190	1-216-001-00	RES,CHIP	10	5%	1/10W
R1191	1-216-001-00	RES,CHIP	10	5%	1/10W
R1192	1-216-001-00	RES,CHIP	10	5%	1/10W
R1193	1-216-001-00	RES,CHIP	10	5%	1/10W
R1194	1-216-001-00	RES,CHIP	10	5%	1/10W
R1195	1-216-001-00	RES,CHIP	10	5%	1/10W
R1196	1-216-001-00	RES,CHIP	10	5%	1/10W
R1197	1-216-001-00	RES,CHIP	10	5%	1/10W
R1198	1-216-001-00	RES,CHIP	10	5%	1/10W
R1199	1-216-001-00	RES,CHIP	10	5%	1/10W
R1200	1-216-001-00	RES,CHIP	10	5%	1/10W
R1201	1-216-001-00	RES,CHIP	10	5%	1/10W
R1202	1-216-001-00	RES,CHIP	10	5%	1/10W
R1203	1-216-001-00	RES,CHIP	10	5%	1/10W
R1204	1-216-001-00	RES,CHIP	10	5%	1/10W
R1205	1-216-001-00	RES,CHIP	10	5%	1/10W
R1206	1-216-001-00	RES,CHIP	10	5%	1/10W
R1207	1-216-001-00	RES,CHIP	10	5%	1/10W
R1208	1-216-001-00	RES,CHIP	10	5%	1/10W
R1209	1-216-001-00	RES,CHIP	10	5%	1/10W
R1210	1-216-001-00	RES,CHIP	10	5%	1/10W
R1211	1-216-001-00	RES,CHIP	10	5%	1/10W
R1212	1-216-001-00	RES,CHIP	10	5%	1/10W
R1213	1-216-001-00	RES,CHIP	10	5%	1/10W
R1214	1-216-001-00	RES,CHIP	10	5%	1/10W
R1215	1-216-001-00	RES,CHIP	10	5%	1/10W
R1216	1-216-001-00	RES,CHIP	10	5%	1/10W
R1217	1-216-001-00	RES,CHIP	10	5%	1/10W
R1218	1-216-001-00	RES,CHIP	10	5%	1/10W
R1219	1-216-001-00	RES,CHIP	10	5%	1/10W
R1220	1-216-001-00	RES,CHIP	10	5%	1/10W
R1221	1-216-001-00	RES,CHIP	10	5%	1/10W
R1222	1-216-295-91	SHORT	0 (OLD)		
R1605	1-216-295-91	SHORT	0 (OLD)		
R1610	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1611	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1622	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1623	1-216-041-00	RES,CHIP	470	5%	1/10W
R1624	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1625	1-216-031-00	RES,CHIP	180	5%	1/10W
R1626	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1627	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1628	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1629	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1630	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1631	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1632	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1633	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1634	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1635	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1636	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1637	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1638	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1639	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1640	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1641	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1642	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1643	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1644	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1645	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1646	1-216-037-00	RES,CHIP	330	5%	1/10W
R1647	1-216-037-00	RES,CHIP	330	5%	1/10W
R1648	1-216-037-00	RES,CHIP	330	5%	1/10W
R1649	1-216-037-00	RES,CHIP	330	5%	1/10W

B C

Ref.No.	Part No.	Description	Remark
	<TEST PIN>		
TP1001	1-535-757-11	CHIP, CHECKER	
TP1002	1-535-757-11	CHIP, CHECKER	
TP1003	1-535-757-11	CHIP, CHECKER	
TP1004	1-535-757-11	CHIP, CHECKER	
	<CRYSTAL>		
X1001	1-767-999-21	VIBRATOR, CRYSTAL (7.8565MHz)	
X1002	1-781-001-21	VIBRATOR, CRYSTAL (6.5536MHz) (OLD)	
X1002	1-781-000-11	VIBRATOR, CRYSTAL (6.5536MHz) (NEW/LDU-1515)	
X1003	1-781-000-21	VIBRATOR, CRYSTAL (9.8304MHz)	
**********			
	* A-1335-124-A	C COMPL (LDU-1515) *********	
	3-531-576-11	RIVET	
	* 4-072-885-01	GUARD, PWB C	
	<CONNECTOR>		
CN1	* 1-785-138-11	SOCKET, CONNECTOR (PLUG)	
CN2	* 1-785-138-11	SOCKET, CONNECTOR (PLUG)	
CN3	* 1-785-138-11	SOCKET, CONNECTOR (PLUG)	
CN4	* 1-785-138-11	SOCKET, CONNECTOR (PLUG)	
	<DIODE>		
D101	8-719-077-24	DIODE NSPG346AST-GMX	
D102	8-719-077-25	DIODE NSPG346AST-HMX	
D103	8-719-077-24	DIODE NSPG346AST-GMX	
D104	8-719-077-25	DIODE NSPG346AST-HMX	
D105	8-719-077-24	DIODE NSPG346AST-GMX	
D106	8-719-077-25	DIODE NSPG346AST-HMX	
D107	8-719-077-24	DIODE NSPG346AST-GMX	
D108	8-719-077-25	DIODE NSPG346AST-HMX	
D109	8-719-077-25	DIODE NSPG346AST-HMX	
D110	8-719-077-24	DIODE NSPG346AST-GMX	
D111	8-719-077-25	DIODE NSPG346AST-HMX	
D112	8-719-077-24	DIODE NSPG346AST-GMX	
D113	8-719-077-25	DIODE NSPG346AST-HMX	
D114	8-719-077-24	DIODE NSPG346AST-GMX	
D115	8-719-077-25	DIODE NSPG346AST-HMX	
D116	8-719-077-24	DIODE NSPG346AST-GMX	
D117	8-719-077-24	DIODE NSPG346AST-GMX	
D118	8-719-077-25	DIODE NSPG346AST-HMX	
D119	8-719-077-24	DIODE NSPG346AST-GMX	
D120	8-719-077-25	DIODE NSPG346AST-HMX	
D121	8-719-077-24	DIODE NSPG346AST-GMX	
D122	8-719-077-25	DIODE NSPG346AST-HMX	
D123	8-719-077-24	DIODE NSPG346AST-GMX	
D124	8-719-077-25	DIODE NSPG346AST-HMX	
D125	8-719-077-25	DIODE NSPG346AST-HMX	
D126	8-719-077-24	DIODE NSPG346AST-GMX	
D127	8-719-077-25	DIODE NSPG346AST-HMX	
D128	8-719-077-24	DIODE NSPG346AST-GMX	
D129	8-719-077-25	DIODE NSPG346AST-HMX	
D130	8-719-077-24	DIODE NSPG346AST-GMX	
D131	8-719-077-25	DIODE NSPG346AST-HMX	
D132	8-719-077-24	DIODE NSPG346AST-GMX	
D133	8-719-077-24	DIODE NSPG346AST-GMX	
D134	8-719-077-25	DIODE NSPG346AST-HMX	
D135	8-719-077-24	DIODE NSPG346AST-GMX	
D136	8-719-077-25	DIODE NSPG346AST-HMX	
D137	8-719-077-24	DIODE NSPG346AST-GMX	
D138	8-719-077-25	DIODE NSPG346AST-HMX	
D139	8-719-077-24	DIODE NSPG346AST-GMX	
D140	8-719-077-25	DIODE NSPG346AST-HMX	
D141	8-719-077-25	DIODE NSPG346AST-HMX	
D142	8-719-077-24	DIODE NSPG346AST-GMX	
D143	8-719-077-25	DIODE NSPG346AST-HMX	
D144	8-719-077-24	DIODE NSPG346AST-GMX	
D145	8-719-077-25	DIODE NSPG346AST-HMX	
D146	8-719-077-24	DIODE NSPG346AST-GMX	
D147	8-719-077-25	DIODE NSPG346AST-HMX	
D148	8-719-077-24	DIODE NSPG346AST-GMX	
D149	8-719-077-24	DIODE NSPG346AST-GMX	
D150	8-719-077-25	DIODE NSPG346AST-HMX	
D151	8-719-077-24	DIODE NSPG346AST-GMX	
D152	8-719-077-25	DIODE NSPG346AST-HMX	
D153	8-719-077-24	DIODE NSPG346AST-GMX	
D154	8-719-077-25	DIODE NSPG346AST-HMX	
D155	8-719-077-24	DIODE NSPG346AST-GMX	
D156	8-719-077-25	DIODE NSPG346AST-HMX	
D157	8-719-077-25	DIODE NSPG346AST-HMX	
D158	8-719-077-24	DIODE NSPG346AST-GMX	
D159	8-719-077-25	DIODE NSPG346AST-HMX	
D160	8-719-077-24	DIODE NSPG346AST-GMX	
D161	8-719-077-25	DIODE NSPG346AST-HMX	
D162	8-719-077-24	DIODE NSPG346AST-GMX	
D163	8-719-077-25	DIODE NSPG346AST-HMX	
D164	8-719-077-24	DIODE NSPG346AST-GMX	
D201	8-719-077-26	DIODE NSPR346BST-MX	
D202	8-719-077-26	DIODE NSPR346BST-MX	
D203	8-719-077-26	DIODE NSPR346BST-MX	
D204	8-719-077-26	DIODE NSPR346BST-MX	
D205	8-719-077-26	DIODE NSPR346BST-MX	
D206	8-719-077-26	DIODE NSPR346BST-MX	
D207	8-719-077-26	DIODE NSPR346BST-MX	
D208	8-719-077-26	DIODE NSPR346BST-MX	
D209	8-719-077-26	DIODE NSPR346BST-MX	
D210	8-719-077-26	DIODE NSPR346BST-MX	
D211	8-719-077-26	DIODE NSPR346BST-MX	
D212	8-719-077-26	DIODE NSPR346BST-MX	
D213	8-719-077-26	DIODE NSPR346BST-MX	
D214	8-719-077-26	DIODE NSPR346BST-MX	
D215	8-719-077-26	DIODE NSPR346BST-MX	
D216	8-719-077-26	DIODE NSPR346BST-MX	
D217	8-719-077-26	DIODE NSPR346BST-MX	
D218	8-719-077-26	DIODE NSPR346BST-MX	
D219	8-719-077-26	DIODE NSPR346BST-MX	
D220	8-719-077-26	DIODE NSPR346BST-MX	
D221	8-719-077-26	DIODE NSPR346BST-MX	
D222	8-719-077-26	DIODE NSPR346BST-MX	
D223	8-719-077-26	DIODE NSPR346BST-MX	
D224	8-719-077-26	DIODE NSPR346BST-MX	
D225	8-719-077-26	DIODE NSPR346BST-MX	
D226	8-719-077-26	DIODE NSPR346BST-MX	
D227	8-719-077-26	DIODE NSPR346BST-MX	
D228	8-719-077-26	DIODE NSPR346BST-MX	
D229	8-719-077-26	DIODE NSPR346BST-MX	
D230	8-719-077-26	DIODE NSPR346BST-MX	
D231	8-719-077-26	DIODE NSPR346BST-MX	
D232	8-719-077-26	DIODE NSPR346BST-MX	
D233	8-719-077-26	DIODE NSPR346BST-MX	
D234	8-719-077-26	DIODE NSPR346BST-MX	
D235	8-719-077-26	DIODE NSPR346BST-MX	
D236	8-719-077-26	DIODE NSPR346BST-MX	
D237	8-719-077-26	DIODE NSPR346BST-MX	

Ref.No.	Part No.	Description	Remark
D238	8-719-077-26	DIODE NSPR346BST-MX	
D239	8-719-077-26	DIODE NSPR346BST-MX	
D240	8-719-077-26	DIODE NSPR346BST-MX	
D241	8-719-077-26	DIODE NSPR346BST-MX	
D242	8-719-077-26	DIODE NSPR346BST-MX	
D243	8-719-077-26	DIODE NSPR346BST-MX	
D244	8-719-077-26	DIODE NSPR346BST-MX	
D245	8-719-077-26	DIODE NSPR346BST-MX	
D246	8-719-077-26	DIODE NSPR346BST-MX	
D247	8-719-077-26	DIODE NSPR346BST-MX	
D248	8-719-077-26	DIODE NSPR346BST-MX	
D249	8-719-077-26	DIODE NSPR346BST-MX	
D250	8-719-077-26	DIODE NSPR346BST-MX	
D251	8-719-077-26	DIODE NSPR346BST-MX	
D252	8-719-077-26	DIODE NSPR346BST-MX	
D253	8-719-077-26	DIODE NSPR346BST-MX	
D254	8-719-077-26	DIODE NSPR346BST-MX	
D255	8-719-077-26	DIODE NSPR346BST-MX	
D256	8-719-077-26	DIODE NSPR346BST-MX	
D257	8-719-077-26	DIODE NSPR346BST-MX	
D258	8-719-077-26	DIODE NSPR346BST-MX	
D259	8-719-077-26	DIODE NSPR346BST-MX	
D260	8-719-077-26	DIODE NSPR346BST-MX	
D261	8-719-077-26	DIODE NSPR346BST-MX	
D262	8-719-077-26	DIODE NSPR346BST-MX	
D263	8-719-077-26	DIODE NSPR346BST-MX	
D264	8-719-077-26	DIODE NSPR346BST-MX	
D301	8-719-077-27	DIODE NSPB346AST-MX	
D302	8-719-077-27	DIODE NSPB346AST-MX	
D303	8-719-077-27	DIODE NSPB346AST-MX	
D304	8-719-077-27	DIODE NSPB346AST-MX	
D305	8-719-077-27	DIODE NSPB346AST-MX	
D306	8-719-077-27	DIODE NSPB346AST-MX	
D307	8-719-077-27	DIODE NSPB346AST-MX	
D308	8-719-077-27	DIODE NSPB346AST-MX	
D309	8-719-077-27	DIODE NSPB346AST-MX	
D310	8-719-077-27	DIODE NSPB346AST-MX	
D311	8-719-077-27	DIODE NSPB346AST-MX	
D312	8-719-077-27	DIODE NSPB346AST-MX	
D313	8-719-077-27	DIODE NSPB346AST-MX	
D314	8-719-077-27	DIODE NSPB346AST-MX	
D315	8-719-077-27	DIODE NSPB346AST-MX	
D316	8-719-077-27	DIODE NSPB346AST-MX	
D317	8-719-077-27	DIODE NSPB346AST-MX	
D318	8-719-077-27	DIODE NSPB346AST-MX	
D319	8-719-077-27	DIODE NSPB346AST-MX	
D320	8-719-077-27	DIODE NSPB346AST-MX	
D321	8-719-077-27	DIODE NSPB346AST-MX	
D322	8-719-077-27	DIODE NSPB346AST-MX	
D323	8-719-077-27	DIODE NSPB346AST-MX	
D324	8-719-077-27	DIODE NSPB346AST-MX	
D325	8-719-077-27	DIODE NSPB346AST-MX	
D326	8-719-077-27	DIODE NSPB346AST-MX	
D327	8-719-077-27	DIODE NSPB346AST-MX	
D328	8-719-077-27	DIODE NSPB346AST-MX	
D329	8-719-077-27	DIODE NSPB346AST-MX	
D330	8-719-077-27	DIODE NSPB346AST-MX	
D331	8-719-077-27	DIODE NSPB346AST-MX	
D332	8-719-077-27	DIODE NSPB346AST-MX	
D333	8-719-077-27	DIODE NSPB346AST-MX	
D334	8-719-077-27	DIODE NSPB346AST-MX	
D335	8-719-077-27	DIODE NSPB346AST-MX	
D336	8-719-077-27	DIODE NSPB346AST-MX	
D337	8-719-077-27	DIODE NSPB346AST-MX	
D338	8-719-077-27	DIODE NSPB346AST-MX	
D339	8-719-077-27	DIODE NSPB346AST-MX	
D340	8-719-077-27	DIODE NSPB346AST-MX	
D341	8-719-077-27	DIODE NSPB346AST-MX	
D342	8-719-077-27	DIODE NSPB346AST-MX	
D343	8-719-077-27	DIODE NSPB346AST-MX	
D344	8-719-077-27	DIODE NSPB346AST-MX	
D345	8-719-077-27	DIODE NSPB346AST-MX	
D346	8-719-077-27	DIODE NSPB346AST-MX	
D347	8-719-077-27	DIODE NSPB346AST-MX	
D348	8-719-077-27	DIODE NSPB346AST-MX	
D349	8-719-077-27	DIODE NSPB346AST-MX	
D350	8-719-077-27	DIODE NSPB346AST-MX	
D351	8-719-077-27	DIODE NSPB346AST-MX	
D352	8-719-077-27	DIODE NSPB346AST-MX	
D353	8-719-077-27	DIODE NSPB346AST-MX	
D354	8-719-077-27	DIODE NSPB346AST-MX	
D355	8-719-077-27	DIODE NSPB346AST-MX	
D356	8-719-077-27	DIODE NSPB346AST-MX	
D357	8-719-077-27	DIODE NSPB346AST-MX	
D358	8-719-077-27	DIODE NSPB346AST-MX	
D359	8-719-077-27	DIODE NSPB346AST-MX	
D360	8-719-077-27	DIODE NSPB346AST-MX	
D361	8-719-077-27	DIODE NSPB346AST-MX	
D362	8-719-077-27	DIODE NSPB346AST-MX	
D363	8-719-077-27	DIODE NSPB346AST-MX	
D364	8-719-077-27	DIODE NSPB346AST-MX	

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* A-1275-156-A	Q COMPL	
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* 4-063-313-01	PANEL, Q (OLD)	
* 4-063-313-11	PANEL, Q (NDW/LDU-1515)	
* 4-063-315-01	LAMP COVER	
7-682-947-01	SCREW +PSW 3X6	

<CAPACITOR>

C2001	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2002	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2003	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2004	1-126-204-11	ELECT CHIP 47MF	20%	16V
C2005	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2006	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2007	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2008	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2010	1-163-235-11	CERAMIC CHIP 22PF	5%	50V
C2012	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2013	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2014	1-109-982-11	CERAMIC CHIP 1MF	10%	10V
C2015	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2016	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2017	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2018	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2019	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2020	1-126-204-11	ELECT CHIP 47MF	20%	16V
C2021	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2022	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2023	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2024	1-126-204-11	ELECT CHIP 47MF	20%	16V
C2025	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2026	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2027	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2028	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2029	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V
C2030	1-115-339-11	CERAMIC CHIP 0.1MF	10%	50V

Q

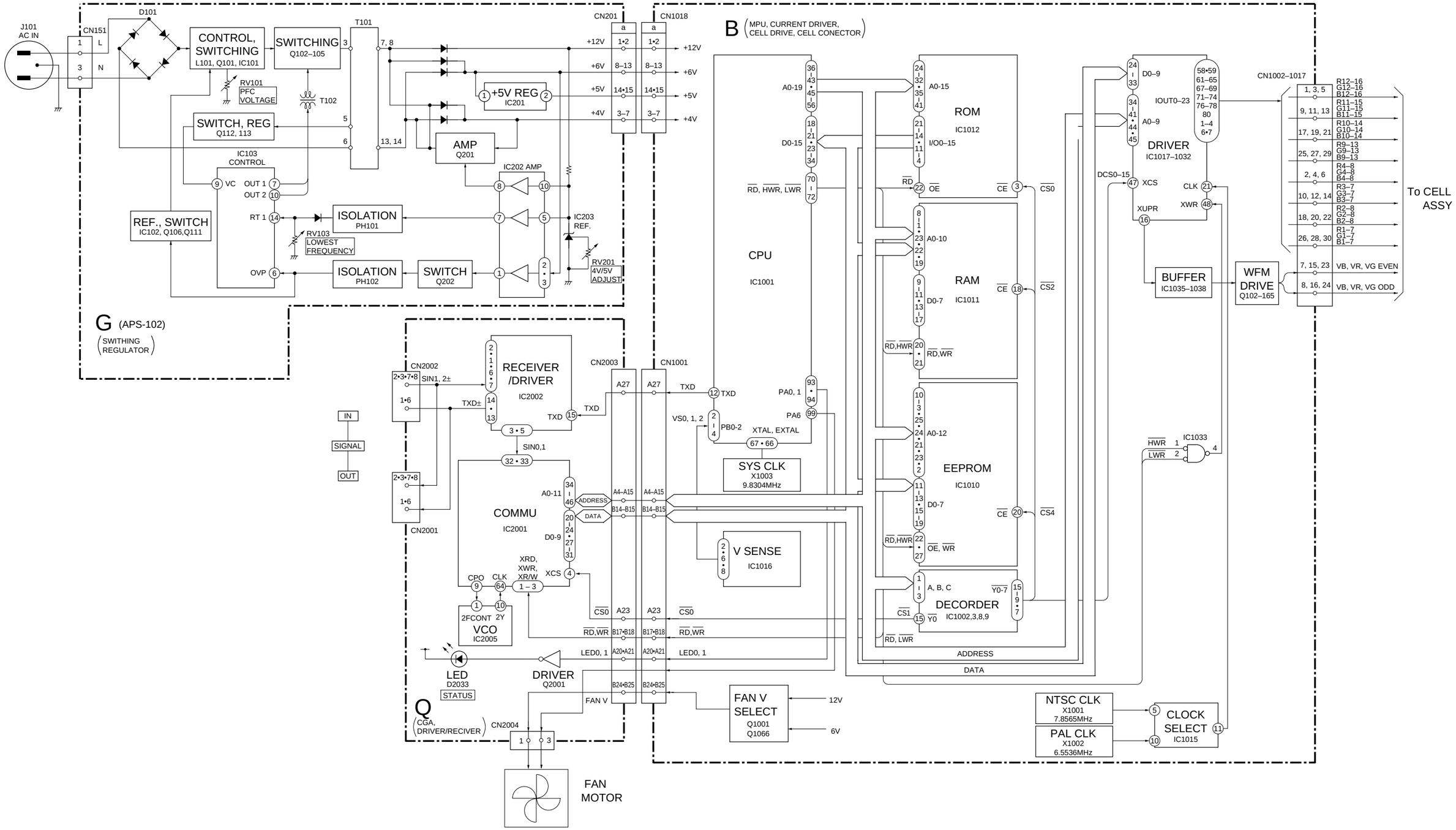
Ref.No.	Part No.	Description			Remark
	<CONNECTOR>				
CN2001	1-774-361-11	CONNECTOR (D SUB) 15P			
CN2002	1-774-361-11	CONNECTOR (D SUB) 15P			
CN2003	1-691-856-11	CONNECTOR, BOARD TO BOARD 60P			
CN2004	* 1-506-468-11	PIN, CONNECTOR 3P			
	<DIODE>				
D2001	8-719-800-76	DIODE 1SS226			
D2002	8-719-800-76	DIODE 1SS226			
D2003	8-719-800-76	DIODE 1SS226			
D2004	8-719-800-76	DIODE 1SS226			
D2005	8-719-800-76	DIODE 1SS226			
D2006	8-719-800-76	DIODE 1SS226			
D2007	8-719-800-76	DIODE 1SS226			
D2008	8-719-800-76	DIODE 1SS226			
D2009	8-719-800-76	DIODE 1SS226			
D2010	8-719-800-76	DIODE 1SS226			
D2011	8-719-800-76	DIODE 1SS226			
D2012	8-719-800-76	DIODE 1SS226			
D2013	8-719-800-76	DIODE 1SS226			
D2014	8-719-800-76	DIODE 1SS226			
D2015	8-719-800-76	DIODE 1SS226			
D2016	8-719-800-76	DIODE 1SS226			
D2033	8-719-946-89	DIODE GL5ED5			
D2034	8-719-988-62	DIODE 1SS355			
	<FILTER>				
FL2001	1-239-903-11	FILTER, CHIP EMI			
FL2002	1-239-400-11	FILTER, CHIP EMI			
FL2003	1-239-400-11	FILTER, CHIP EMI			
FL2004	1-239-899-21	FILTER, CHIP EMI			
FL2005	1-239-400-11	FILTER, CHIP EMI			
FL2006	1-239-903-11	FILTER, CHIP EMI			
FL2007	1-239-903-11	FILTER, CHIP EMI			
FL2008	1-239-035-11	FILTER, EMI (CHIP)			
FL2009	1-414-135-11	FERRITE	0UH		
FL2010	1-414-135-11	FERRITE	0UH		
FL2011	1-414-135-11	FERRITE	0UH		
FL2012	1-414-135-11	FERRITE	0UH		
FL2013	1-414-135-11	FERRITE	0UH		
FL2014	1-414-135-11	FERRITE	0UH		
	<IC>				
IC2001	8-752-391-61	IC CXD316-107Q			
IC2002	8-759-479-30	IC SN75C1167NS-E05			
IC2003	8-759-926-77	IC SN74HC541ANS			
IC2004	8-759-926-77	IC SN74HC541ANS			
IC2005	8-759-931-48	IC SN74LS629NS			
IC2006	8-759-926-77	IC SN74HC541ANS			
	<TRANSISTOR>				
Q2001	8-729-929-99	TRANSISTOR UMB11-TN			
	<RESISTOR>				
R2001	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2002	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2003	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2004	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R2005	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R2006	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2007	1-216-025-91	RES,CHIP	100	5%	1/10W
R2008	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R2009	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2010	1-216-025-91	RES,CHIP	100	5%	1/10W
R2011	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R2012	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2013	1-216-025-91	RES,CHIP	100	5%	1/10W
R2014	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2015	1-216-025-91	RES,CHIP	100	5%	1/10W
R2016	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2017	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2018	1-216-025-91	RES,CHIP	100	5%	1/10W
R2019	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2020	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2021	1-216-025-91	RES,CHIP	100	5%	1/10W
R2022	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2023	1-216-025-91	RES,CHIP	100	5%	1/10W
R2024	1-216-295-91	SHORT	0		
R2025	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2026	1-216-025-91	RES,CHIP	100	5%	1/10W
R2027	1-216-295-91	SHORT	0		
R2028	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2029	1-216-025-91	RES,CHIP	100	5%	1/10W
R2030	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2031	1-216-025-91	RES,CHIP	100	5%	1/10W
R2032	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2033	1-216-025-91	RES,CHIP	100	5%	1/10W
R2034	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2035	1-216-025-91	RES,CHIP	100	5%	1/10W
R2036	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2037	1-216-025-91	RES,CHIP	100	5%	1/10W
R2038	1-216-025-91	RES,CHIP	100	5%	1/10W
R2039	1-216-025-91	RES,CHIP	100	5%	1/10W
R2040	1-216-025-91	RES,CHIP	100	5%	1/10W
R2041	1-216-025-91	RES,CHIP	100	5%	1/10W
R2042	1-216-025-91	RES,CHIP	100	5%	1/10W
R2043	1-216-025-91	RES,CHIP	100	5%	1/10W
R2044	1-216-025-91	RES,CHIP	100	5%	1/10W
R2045	1-216-025-91	RES,CHIP	100	5%	1/10W
R2046	1-216-025-91	RES,CHIP	100	5%	1/10W
R2047	1-216-025-91	RES,CHIP	100	5%	1/10W
R2048	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2049	1-216-025-91	RES,CHIP	100	5%	1/10W
R2050	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2051	1-216-025-91	RES,CHIP	100	5%	1/10W
R2052	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2053	1-216-025-91	RES,CHIP	100	5%	1/10W
R2054	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2055	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2056	1-216-025-91	RES,CHIP	100	5%	1/10W
R2057	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2058	1-216-025-91	RES,CHIP	100	5%	1/10W
R2059	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2060	1-216-025-91	RES,CHIP	100	5%	1/10W
R2061	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2062	1-216-025-91	RES,CHIP	100	5%	1/10W
R2063	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2064	1-216-025-91	RES,CHIP	100	5%	1/10W
R2065	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2066	1-216-025-91	RES,CHIP	100	5%	1/10W
R2067	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2068	1-216-025-91	RES,CHIP	100	5%	1/10W
R2069	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2070	1-216-089-91	RES,CHIP	47K	5%	1/10W

Ref.No.	Part No.	Description			Remark
R2071	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2072	1-216-025-91	RES,CHIP	100	5%	1/10W
R2073	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2074	1-216-025-91	RES,CHIP	100	5%	1/10W
R2075	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2076	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2077	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2078	1-216-025-91	RES,CHIP	100	5%	1/10W
R2079	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2080	1-216-025-91	RES,CHIP	100	5%	1/10W
R2081	1-216-025-91	RES,CHIP	100	5%	1/10W
R2082	1-216-097-91	RES,CHIP	100K	5%	1/10W
R2083	1-216-025-91	RES,CHIP	100	5%	1/10W
R2084	1-216-025-91	RES,CHIP	100	5%	1/10W
R2085	1-216-025-91	RES,CHIP	100	5%	1/10W
R2086	1-216-025-91	RES,CHIP	100	5%	1/10W
R2087	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2088	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2089	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2090	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2091	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2092	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2093	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2094	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2095	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2096	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2097	1-216-047-91	RES,CHIP	820	5%	1/10W
R2098	1-216-033-00	RES,CHIP	220	5%	1/10W
R2099	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2100	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2101	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2102	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2103	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2104	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2105	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2106	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2107	1-216-029-00	RES,CHIP	150	5%	1/10W
R2108	1-216-029-00	RES,CHIP	150	5%	1/10W
R2109	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2110	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2111	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2112	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2113	1-216-295-91	SHORT	0		
R2114	1-216-295-91	SHORT	0		
R2115	1-216-295-91	SHORT	0		
R2116	1-216-295-91	SHORT	0		
R2117	1-216-295-91	SHORT	0		
R2118	1-216-295-91	SHORT	0		
R2119	1-216-295-91	SHORT	0		
R2120	1-216-295-91	SHORT	0		
R2121	1-216-295-91	SHORT	0		
R2122	1-216-295-91	SHORT	0		
	<VARIABLE RESISTOR>				
RV2001	1-230-303-00	RES, ADJ, CERMET 1K			
	<SWITCH>				
SW2001	1-771-446-11	SWITCH, ROTARY			
SW2002	1-771-446-11	SWITCH, ROTARY			
SW2003	1-771-446-11	SWITCH, ROTARY			

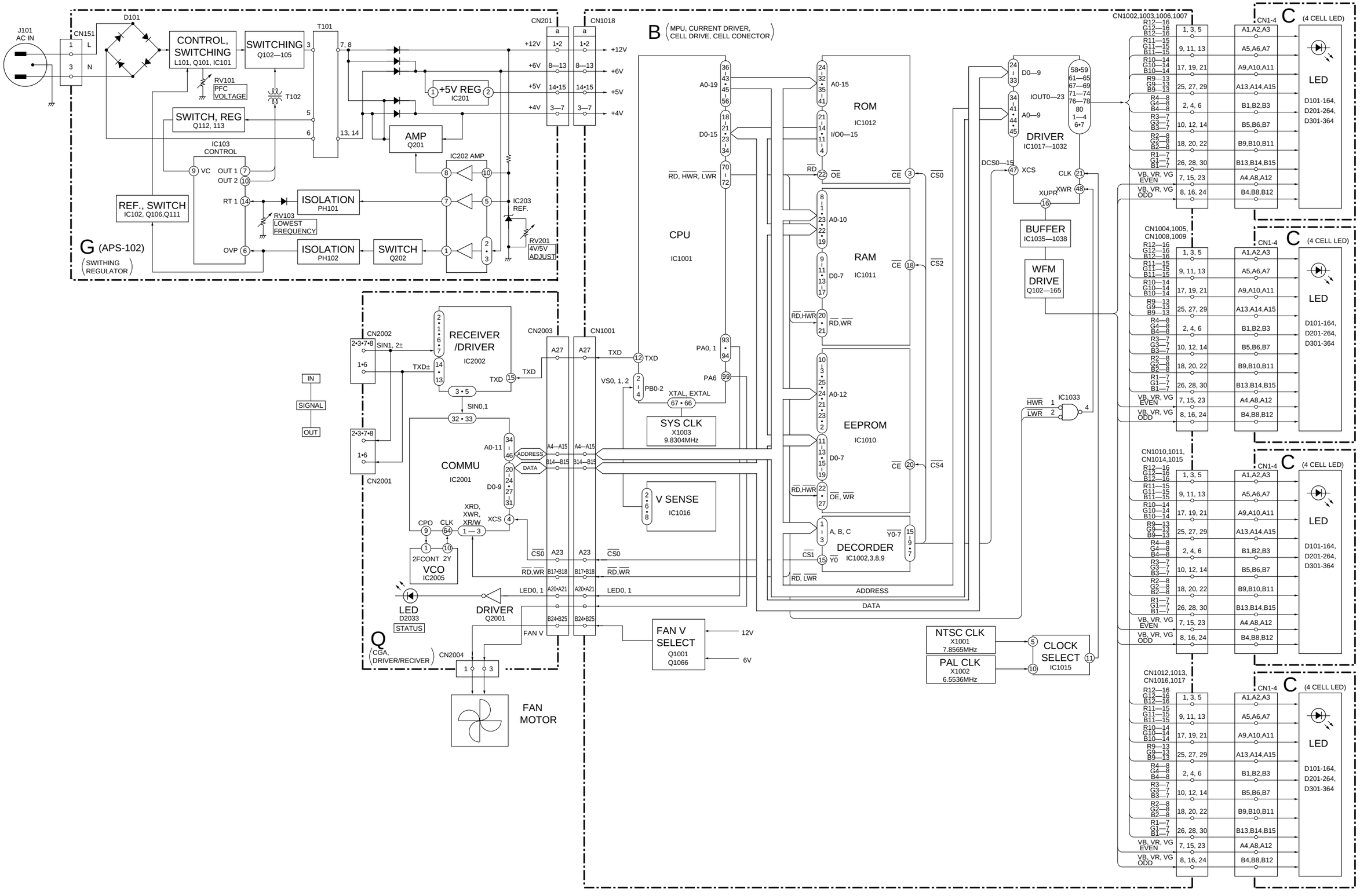
Ref.No.	Part No.	Description	Remark
	<TEST PIN>		
TP2001	1-535-757-11	CHIP, CHECKER	
TP2002	1-535-757-11	CHIP, CHECKER	
TP2003	1-535-757-11	CHIP, CHECKER	
**********			
		MISCELLANEOUS	
		**********	
J101	⚠1-540-051-12	INLET AC	
**********			
		ACCESSORIES	
		**********	
	* 1-783-892-21	CABLE (SIGNAL CABLE)	
	2-990-242-01	HOLDER (B), PLUG (POWER PLUG HOLDER)	

Section 7
Block Diagrams

LDU-1530S/1530L/1540S/1540L



LDU-1515


G (APS-102)
SWITHING REGULATOR
J101
AC IN
CN151
D101
CONTROL, SWITCHING
L101, Q101, IC101
SWITCHING
Q102—105
T101
T102
RV101
PFC VOLTAGE
SWITCH, REG
Q112, 113
IC103
CONTROL
REF., SWITCH
IC102, Q106,Q111
ISOLATION
PH101
ISOLATION
PH102
SWITCH
Q202
RV103
LOWEST FREQUENCY
RV201
4V/5V ADJUST
IC202 AMP
AMP
Q201
+5V REG
IC201
IC203
REF.
CN201
CN1018
+12V
+6V
+5V
+4V
B (MPU, CURRENT DRIVER, CELL DRIVE, CELL CONECTOR)
CPU
IC1001
ROM
IC1012
RAM
IC1011
EEPROM
IC1010
DECORDER
IC1002,3,8,9
ADDRESS
DATA
CS0
CS2
CS4
CS1
CN1002,1003,1006,1007
CN1004,1005,
CN1008,1009
CN1010,1011,
CN1014,1015
CN1012,1013,
CN1016,1017
C (4 CELL LED)
CN1-4
LED
D101-164,
D201-264,
D301-364
DRIVER
IC1017—1032
BUFFER
IC1035—1038
WFM DRIVE
Q102—165
IC1033
CN2002
CN2003
CN1001
RECEIVER /DRIVER
IC2002
COMMU
IC2001
CN2001
VCO
IC2005
IC2033
STATUS
DRIVER
Q2001
SYS CLK
X1003
9.8304MHz
V SENSE
IC1016
FAN V SELECT
Q1001
Q1066
FAN MOTOR
NTSC CLK
X1001
7.8565MHz
PAL CLK
X1002
6.5536MHz
CLOCK SELECT
IC1015
Q
CGA, DRIVER/RECIVER
CN2004
IN
SIGNAL
OUT

Section 8
Diagrams

8-1. Schematic Diagrams and Printed Wiring Boards

Note:
- Parts marked " * " differ according to the model/destination. Refer to the mount table for each function.
- The parts marked " # " on schematic diagrams are not mounted.
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics.
- All electrolytics are in 50 V unless otherwise specified.
- : fusible resistor
- : nonflammable resistor
- Δ : internal component
- : panel designation and adjustment for repair
- Caution when replacing chip parts
  New parts must be attached after removal of the chip.
  Be careful not to heat the minus side of a tantalum capacitor, because it is easily damaged by the heat.

Reference information

RESISTOR	RN	: METAL FILM
	RC	: SOLID
	FPRD	: NONFLAMMABLE CARBON
	FUSE	: NONFLAMMABLE FUSIBLE
	RS	: NONFLAMMABLE METAL OXIDE
	RB	: NONFLAMMABLE CEMENT
	RW	: NONFLAMMABLE WIREWOUND
	※	: AJUSTMENT RESISTOR
COIL	LF-8L	: MICRO INDUCTOR
CAPACITOR	TA	: TANTALUM
	PS	: STYROL
	PP	: POLYPROPYLENE
	PT	: MYLAR
	MPS	: METALIZED POLYESTER
	MPP	: METALIZED POLYPROPYLENE
	ALB	: BIPOLAR
	ALT	: HIGH TEMPERATURE
	ALR	: HIGH RIPPLE

[Measuring conditions, voltage and waveform]
- A voltage value is the reference value between the measurement point and the earth, when signal is received from JME-UA200 (digital multi-meter used: 10 M ohms/V DC).
- Unit of voltage is V (volt).
- : B+line
  : B– line
- Voltage variations may occur due to normal production tolerances.
- : Signal path.

The components identified marked ⚠ are critical for safety.
Replace only with the part number specified.

Les composants identifiés par la marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

【使用上の注意】
- ＊印のある部品は，機種などにより異なりますので機種別マウント一覧表を参照してください。
- 回路図中の＃マークはマウントされていません。
- ケミコン，タンタルを除くコンデンサで耐圧 50V 以下のものは，その耐圧を省略。単位はすべて μF（p は pF）
- ケミコン，タンタルのコンデンサで耐圧 50V は省略。
- 印はヒューズ抵抗。
- 印は不燃性抵抗。
- △ 印は内蔵部品。
- 印はパネル表示名称および調整名称。
- チップ部品交換時の注意
  取り外した部品は再使用せず，未使用の部品をご使用ください。
  タンタルコンデンサのマイナス側は熱に弱いため注意してください。

ー部品特性省略表ー
- 固定抵抗

RN	：金属被膜
RC	：ソリッド
FPRD	：不燃性カーボン
FUSE	：不燃性ヒューズ
RS	：不燃性酸化金属被膜
RB	：不燃性セメント
RW	：不燃性巻線
※	：調整抵抗

- マイクロインダクタ

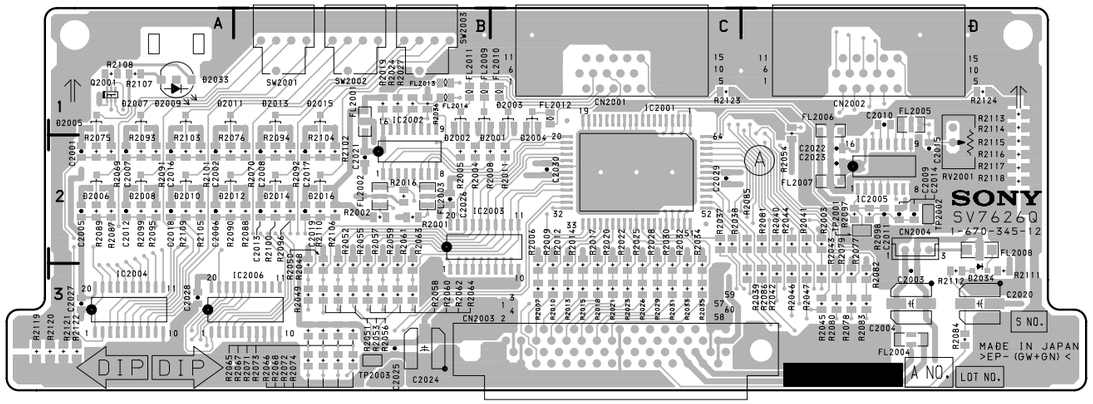
LF-8L	：マイクロインダクタ

- コンデンサ

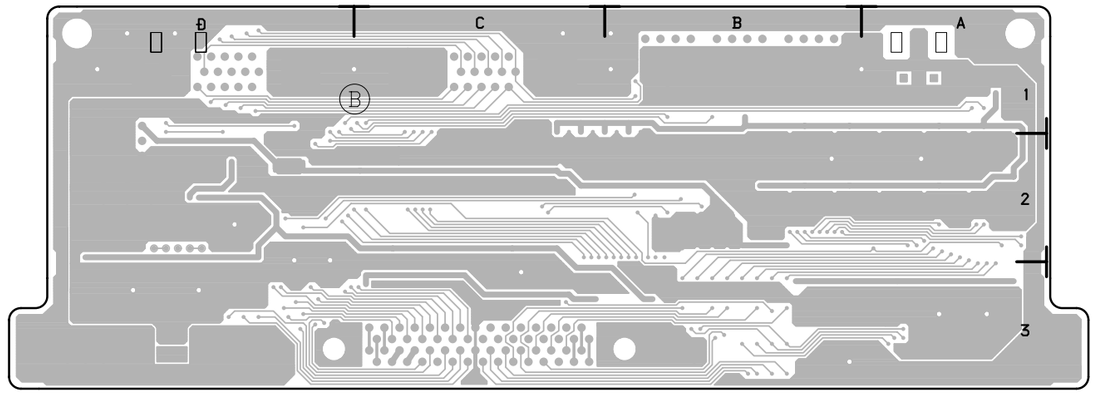
TA	：タンタル
PS	：スチロール
PP	：ポリプロピレン
PT	：マイラ
MPS	：メタライズドポリエステル
MPP	：メタライズドポリプロピレン
ALB	：バイポーラ
ALT	：高温用
ALR	：ハイリップル

【電圧・波形測定条件注意】
- 電圧値は，JME-UA200 より信号を受信したときの対アース間の参考値。
  （使用デジタルマルチメーター 10 MΩ/V DC）
- 電圧値の単位は V（ボルト）
- ：B＋ライン
  ：B ーライン
  （実測値は異なる場合があります。）
- は信号経路。

⚠ 印の部品は , 安全性を維持するために , 重要な部品です。従って交換時は , 必ず指定の部品を使用してください。



Q -A SIDE-
SUFFIX : -12

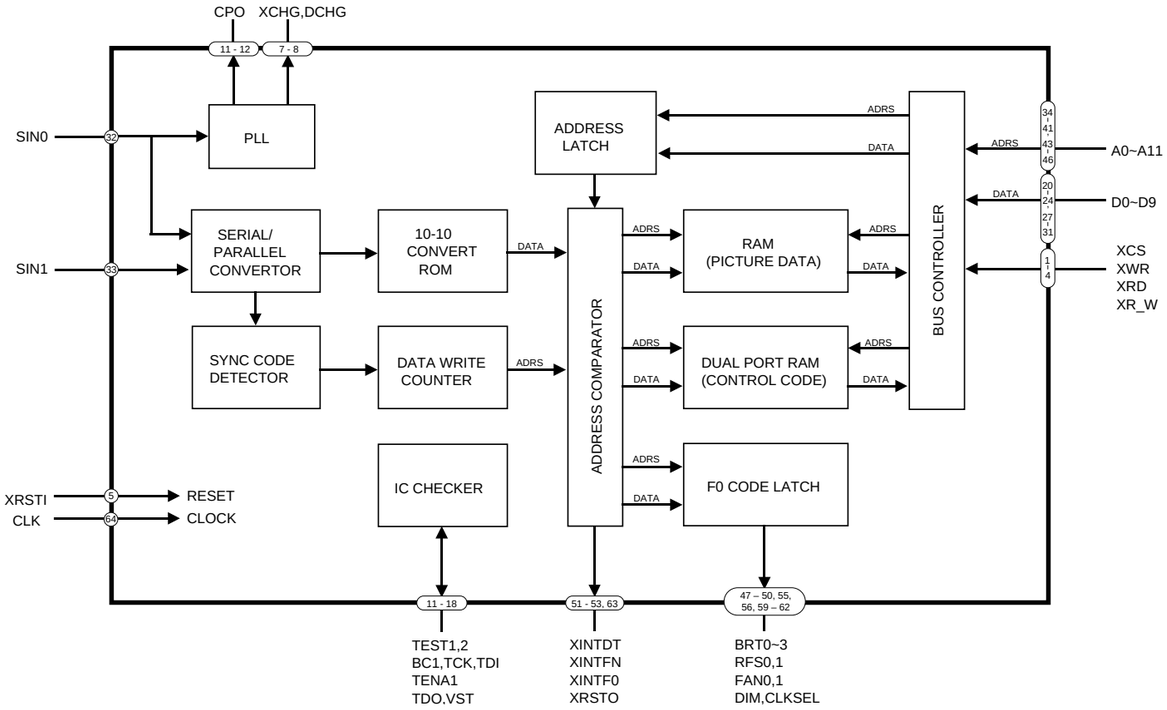


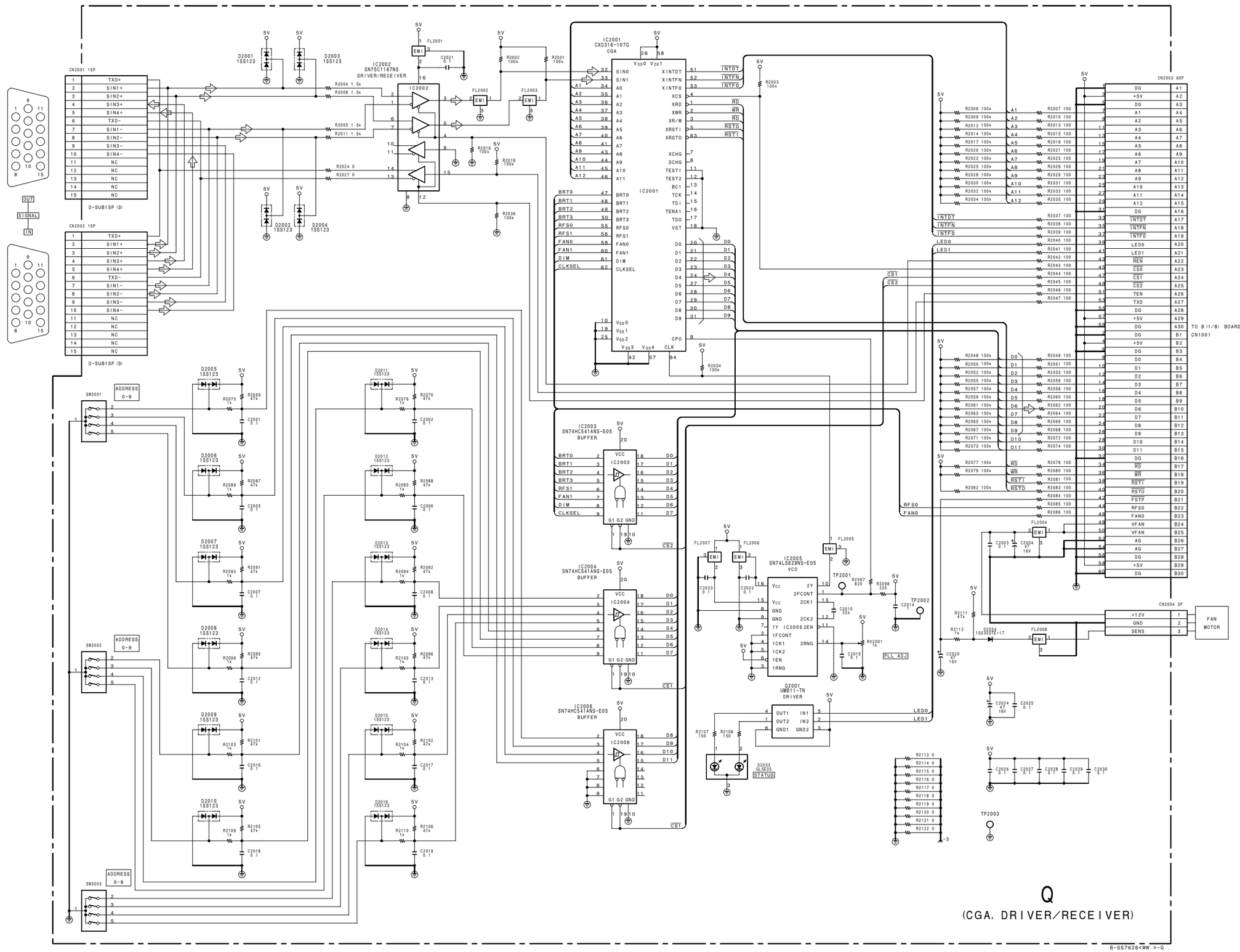
Q -B SIDE-
SUFFIX : -12

Q BOARD

D2001	B-1	D2010	A-2	IC2001	C-2	TP2001	D-2
D2002	B-1	D2011	A-1	IC2002	B-2	TP2002	D-2
D2003	C-1	D2012	A-2	IC2003	B-2	TP2003	B-3
D2004	C-1	D2013	B-1	IC2004	A-3		
D2005	A-1	D2014	B-2	IC2005	D-2	RV2001	D-2
D2006	A-2	D2015	B-1	IC2006	B-3		
D2007	A-1	D2016	B-2				
D2008	A-2	D2033	A-1	Q2001	A-1		
D2009	A-1	D2034	D-3				

Q BOARD IC2001
CXD316-107Q



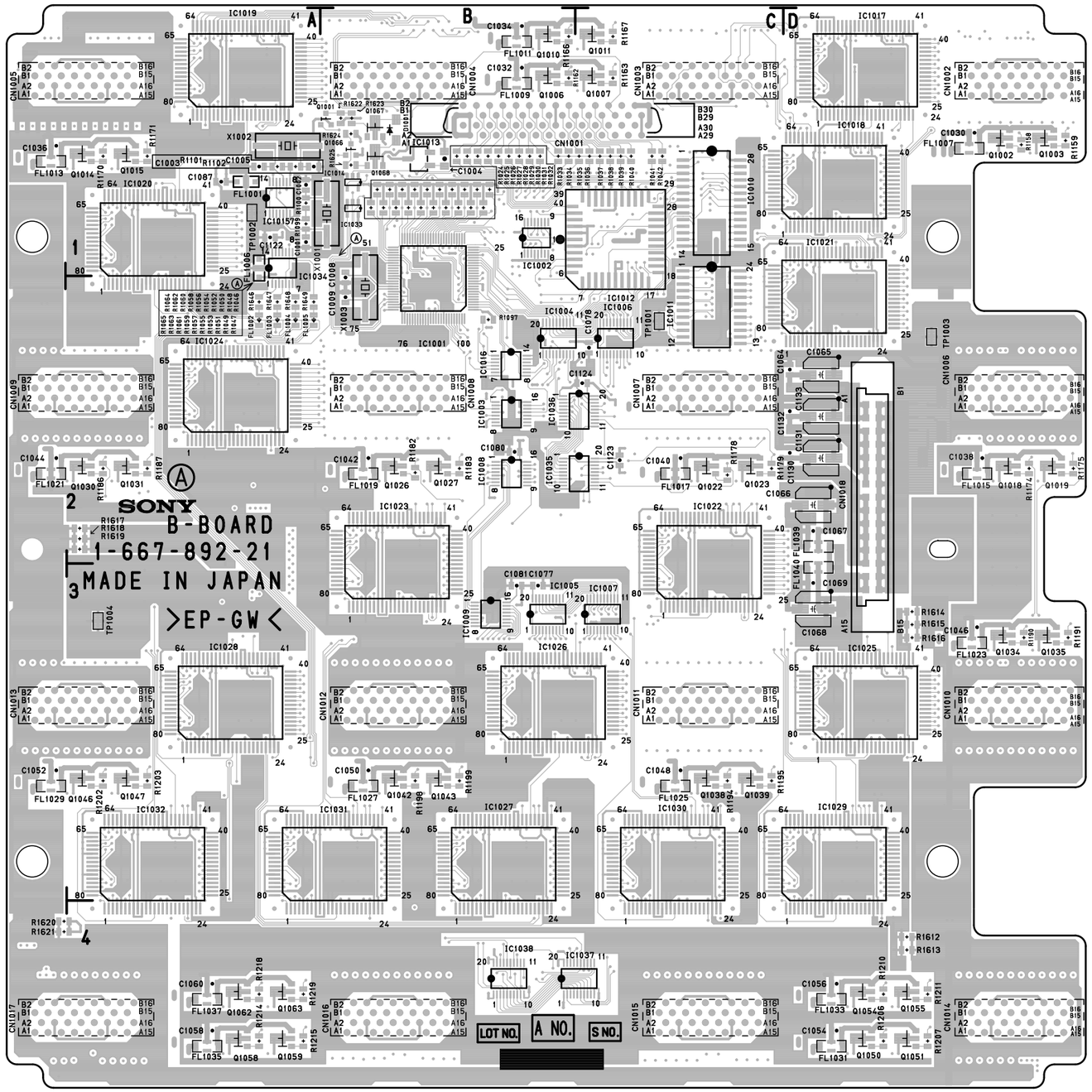

CN2001 15P
CN2002 15P
D-SUB15P (3)
TXD+
SIN1+
SIN2+
SIN3+
SIN4+
TXD-
SIN1-
SIN2-
SIN3-
SIN4-
NC
OUT
SIGNAL
IN
IC2001
CXD3116-107Q
CGA
IC2002
SN75C1167NS
DRIVER/RECEIVER
IC2003
SN74HC541ANS-E05
BUFFER
IC2004
SN74HC541ANS-E05
BUFFER
IC2005
SN74LS629NS-E05
VCO
IC2006
SN74HC541ANS-E05
BUFFER
Q2001
UMB11-TN
DRIVER
CN2003 60P
CN2004 3P
+12V
GND
SENS
FAN MOTOR
TO B(1/8) BOARD
CN1001
ADDRESS
0-9
SW2001
SW2002
SW2003
D2033
GL5E05
STATUS
PLL ADJ
TP2001
TP2002
TP2003
Q
(CGA, DRIVER/RECEIVER)
B-SS7626<WW.>-Q

NEW
LDU-1540S : S/N 1003498 and Higher
LDU-1540L : S/N 1002491 and Higher

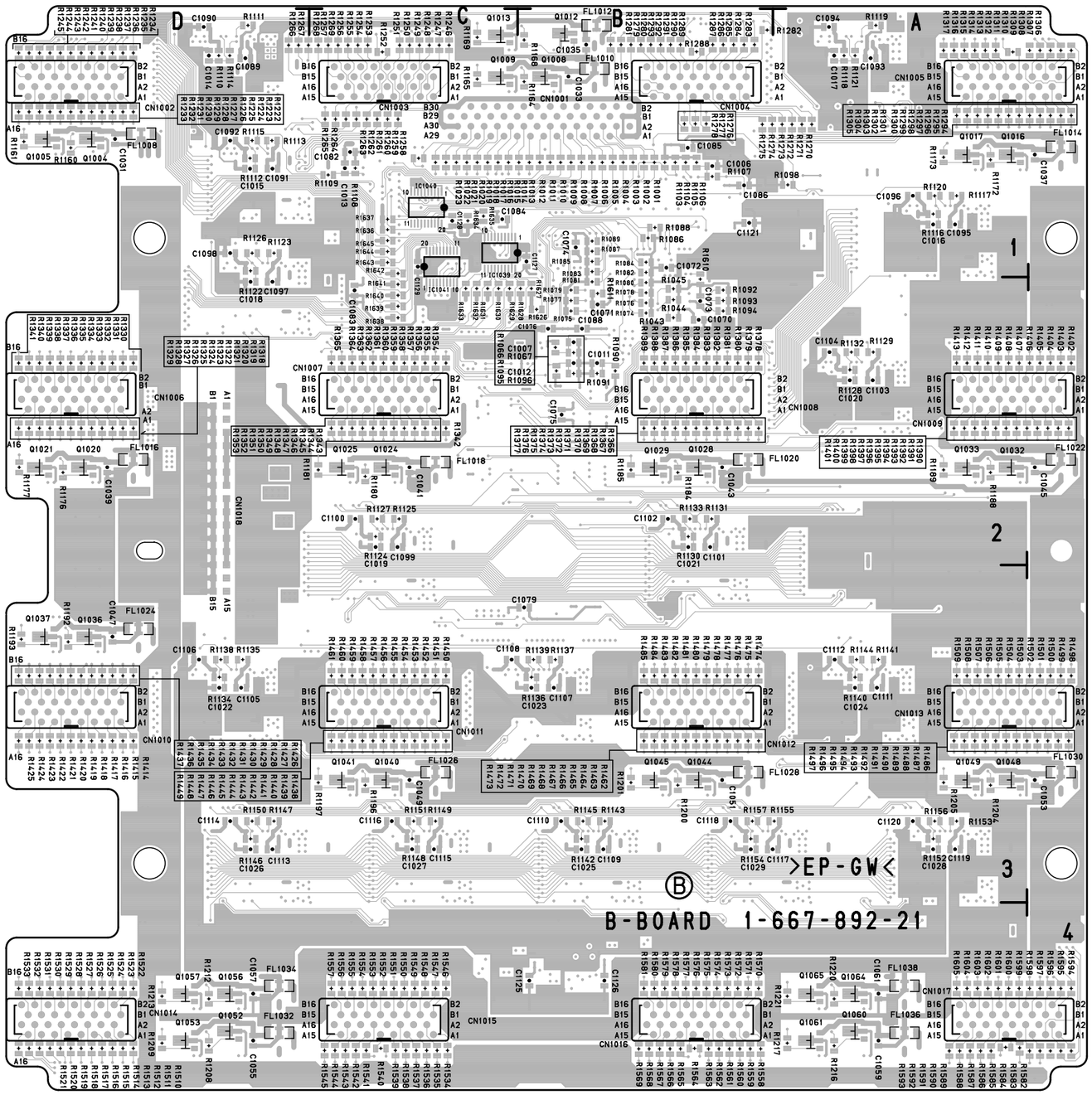
B BOARD

*: B SIDE

D1001	B-1	Q1036	*D-3
		Q1037	*D-3
IC1001	B-2	Q1038	C-2
IC1002	B-1	Q1039	C-2
IC1003	B-2	Q1040	*C-3
IC1004	B-2	Q1041	*C-3
IC1005	B-3	Q1042	B-3
IC1006	C-2	Q1043	B-3
IC1007	C-2	Q1044	*B-3
IC1008	B-2	Q1045	*B-3
IC1009	B-3	Q1046	A-3
IC1010	C-1	Q1047	A-3
IC1011	C-2	Q1048	*A-3
IC1012	C-2	Q1049	*A-3
IC1013	B-1	Q1050	D-4
IC1014	B-1	Q1051	D-4
IC1015	A-1	Q1052	*D-4
IC1016	B-2	Q1053	*D-4
IC1017	D-1	Q1054	D-4
IC1018	D-1	Q1055	D-4
IC1019	A-1	Q1056	*D-4
IC1020	A-1	Q1057	*D-4
IC1021	D-1	Q1058	A-4
IC1022	C-2	Q1059	A-4
IC1023	B-2	Q1060	*A-4
IC1024	A-2	Q1061	*A-4
IC1025	D-3	Q1062	A-4
IC1026	B-3	Q1063	A-4
IC1027	B-3	Q1064	*A-4
IC1028	A-3	Q1065	*A-4
IC1029	D-3	Q1066	B-1
IC1030	C-2	Q1067	B-1
IC1031	B-3	Q1068	B-1
IC1032	A-3		
IC1033	B-1	TP1001	C-2
IC1034	A-1	TP1002	A-1
IC1035	B-2	TP1003	D-1
IC1036	B-2	TP1004	A-3
IC1037	C-4		
IC1038	B-4		
IC1039	*C-1		
IC1040	*C-1		
IC1041	*C-1		
Q1001	B-1		
Q1002	D-1		
Q1003	D-1		
Q1004	*D-1		
Q1005	*D-1		
Q1006	B-1		
Q1007	C-1		
Q1008	*B-1		
Q1009	*C-1		
Q1010	B-1		
Q1011	C-1		
Q1012	*B-1		
Q1013	*C-1		
Q1014	A-1		
Q1015	A-1		
Q1016	*A-1		
Q1017	*A-1		
Q1018	D-1		
Q1019	D-1		
Q1020	*D-2		
Q1021	*D-2		
Q1022	C-2		
Q1023	C-2		
Q1024	*C-2		
Q1025	*C-2		
Q1026	B-2		
Q1027	B-2		
Q1028	*B-2		
Q1029	*B-2		
Q1030	A-2		
Q1031	A-2		
Q1032	*A-2		
Q1033	*A-2		
Q1034	D-3		
Q1035	D-3		



B -A SIDE-
SUFFIX : -21



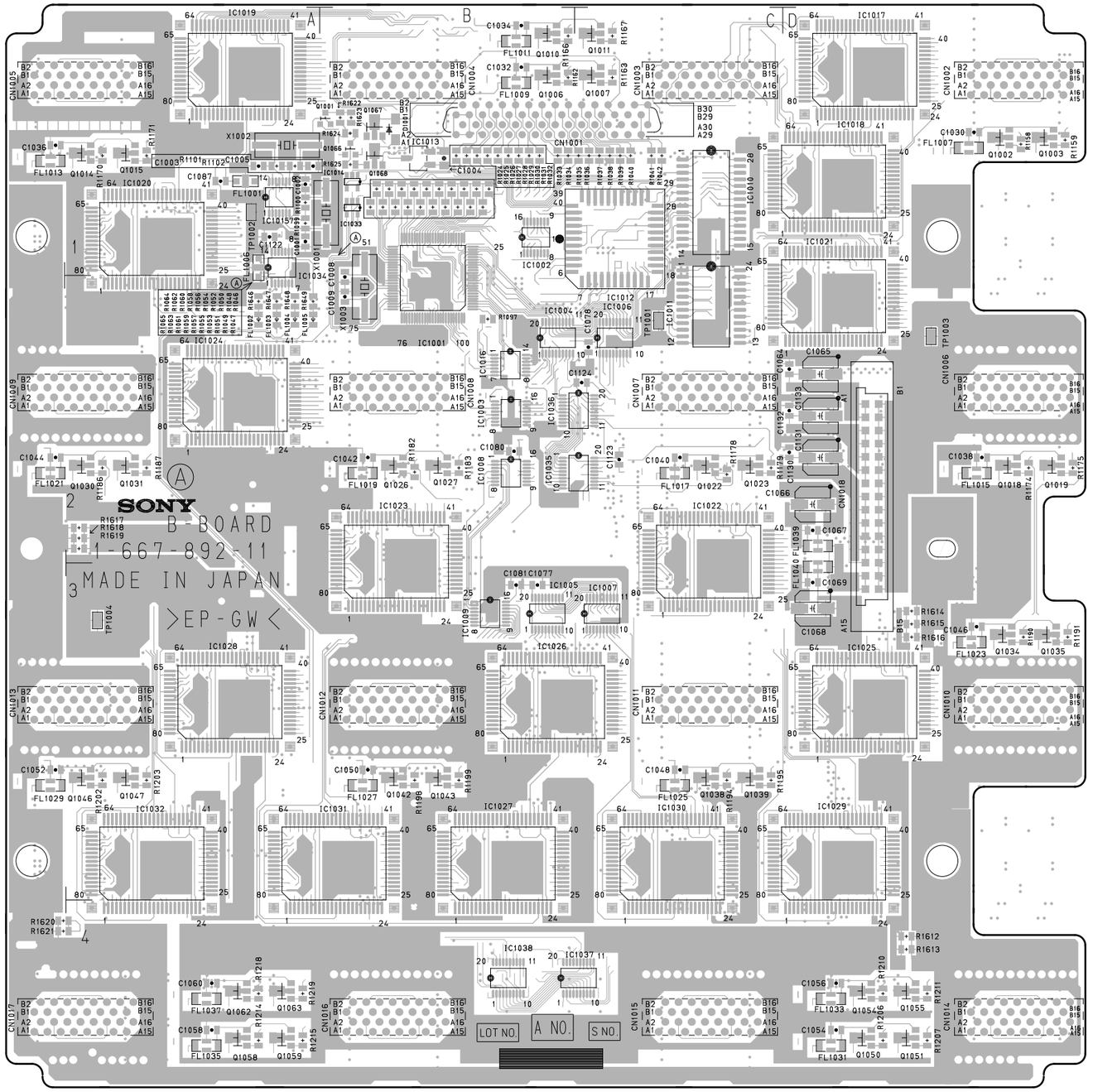
B -B SIDE-
SUFFIX : -21

OLD
LDU-1530S
LDU-1530L
LDU-1540S : Up to S/N 1003497
LDU-1540L : Up to S/N 1002490

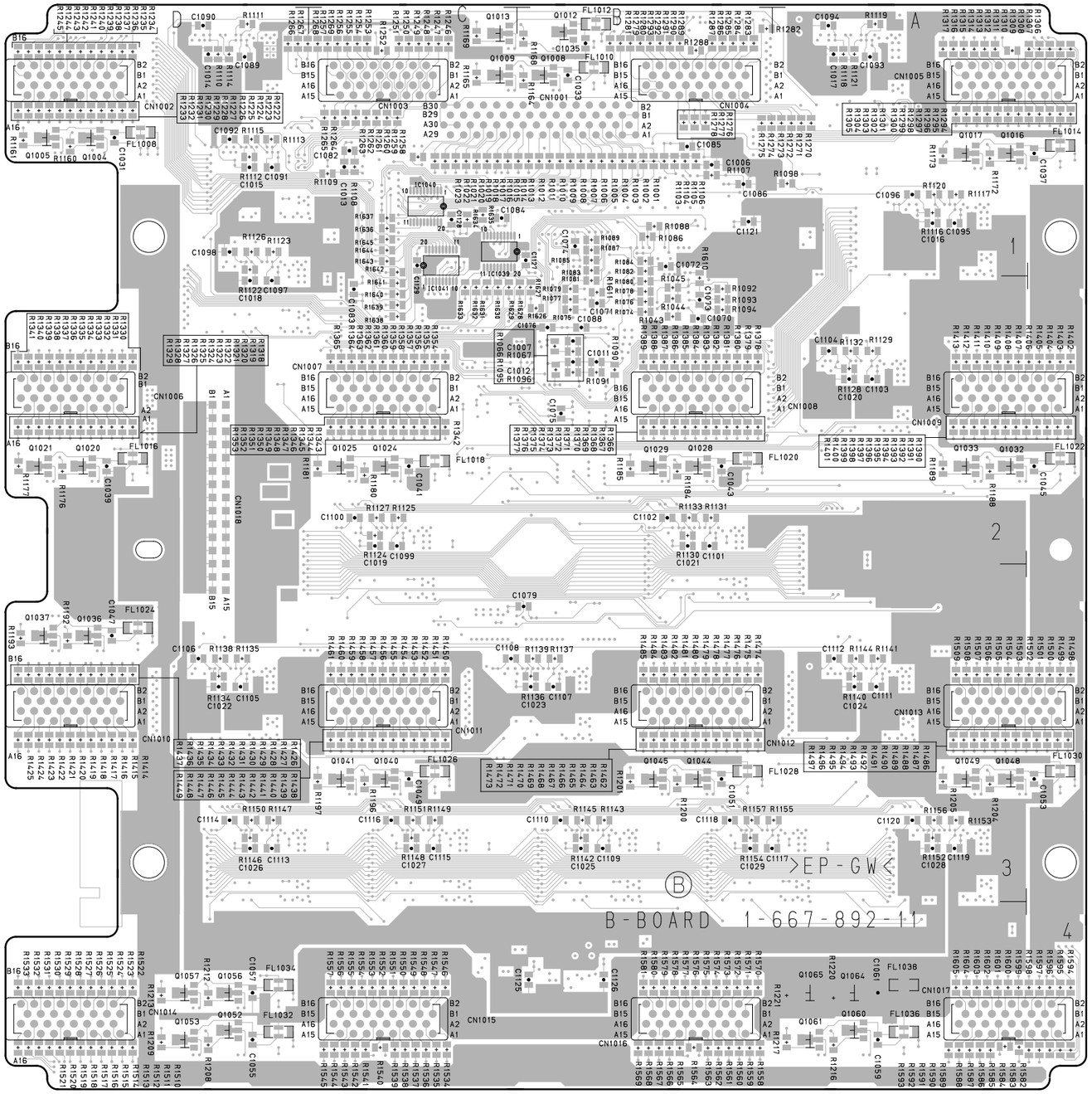
B BOARD

*: B SIDE

D1001	B-1	Q1036	*D-3
		Q1037	*D-3
IC1001	B-2	Q1038	C-3
IC1002	B-1	Q1039	C-3
IC1003	B-2	Q1040	*C-3
IC1004	B-2	Q1041	*C-3
IC1005	B-3	Q1042	B-3
IC1006	C-2	Q1043	B-3
IC1007	C-3	Q1044	*B-3
IC1008	B-2	Q1045	*B-3
IC1009	B-3	Q1046	A-3
IC1010	C-1	Q1047	A-3
IC1011	C-2	Q1048	*A-3
IC1012	C-1	Q1049	*A-3
IC1013	B-1	Q1050	D-4
IC1014	B-1	Q1051	D-4
IC1015	A-1	Q1052	*D-4
IC1016	B-2	Q1053	*D-4
IC1017	D-1	Q1054	D-4
IC1018	D-1	Q1055	D-4
IC1019	A-1	Q1056	*D-4
IC1020	A-1	Q1057	*D-4
IC1021	D-2	Q1058	A-4
IC1022	C-2	Q1059	A-4
IC1023	B-2	Q1060	*A-4
IC1024	A-2	Q1061	*A-4
IC1025	D-3	Q1062	A-4
IC1026	B-3	Q1063	A-4
IC1027	B-3	Q1064	*A-4
IC1028	A-3	Q1065	*A-4
IC1029	D-3	Q1066	B-1
IC1030	C-3	Q1067	B-1
IC1031	B-3	Q1068	B-1
IC1032	A-3		
IC1033	B-1	TPI1001	C-2
IC1034	A-1	TPI1002	A-1
IC1035	C-2	TPI1003	D-2
IC1036	C-2	TPI1004	A-3
IC1037	C-4		
IC1038	B-4		
IC1039	*C-1		
IC1040	*C-1		
IC1041	*C-1		
Q1001	B-1		
Q1002	D-1		
Q1003	D-1		
Q1004	*D-1		
Q1005	*D-1		
Q1006	B-1		
Q1007	C-1		
Q1008	*B-1		
Q1009	*C-1		
Q1010	B-1		
Q1011	C-1		
Q1012	*B-1		
Q1013	*C-1		
Q1014	A-1		
Q1015	A-1		
Q1016	*A-1		
Q1017	*A-1		
Q1018	D-2		
Q1019	D-2		
Q1020	*D-2		
Q1021	*D-2		
Q1022	C-2		
Q1023	C-2		
Q1024	*C-2		
Q1025	*C-2		
Q1026	B-2		
Q1027	B-2		
Q1028	*B-2		
Q1029	*B-2		
Q1030	A-2		
Q1031	A-2		
Q1032	*A-2		
Q1033	*A-2		
Q1034	D-3		
Q1035	D-3		

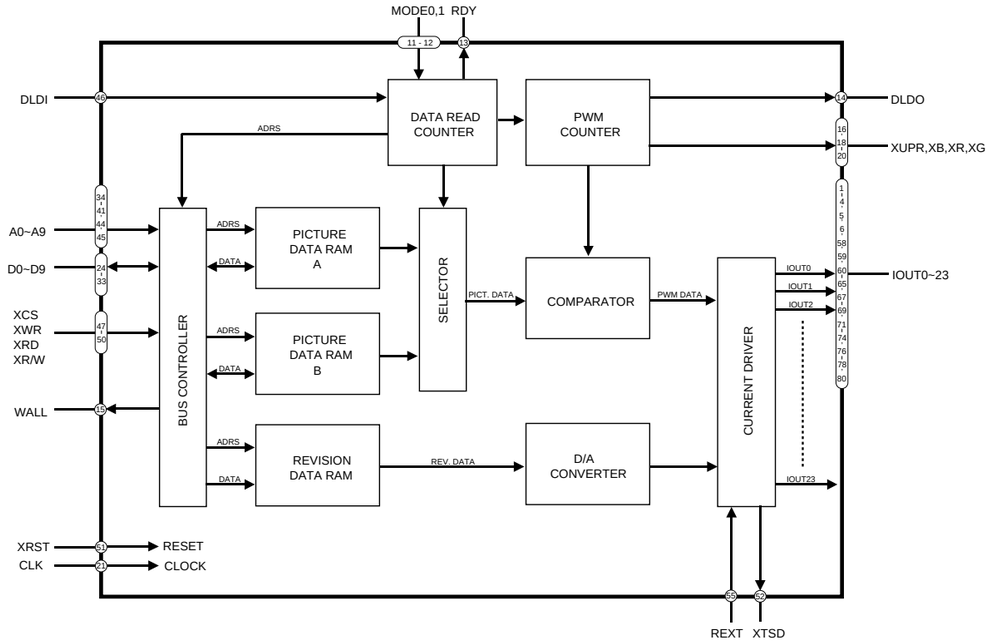


B -A SIDE-
SUFFIX : -11



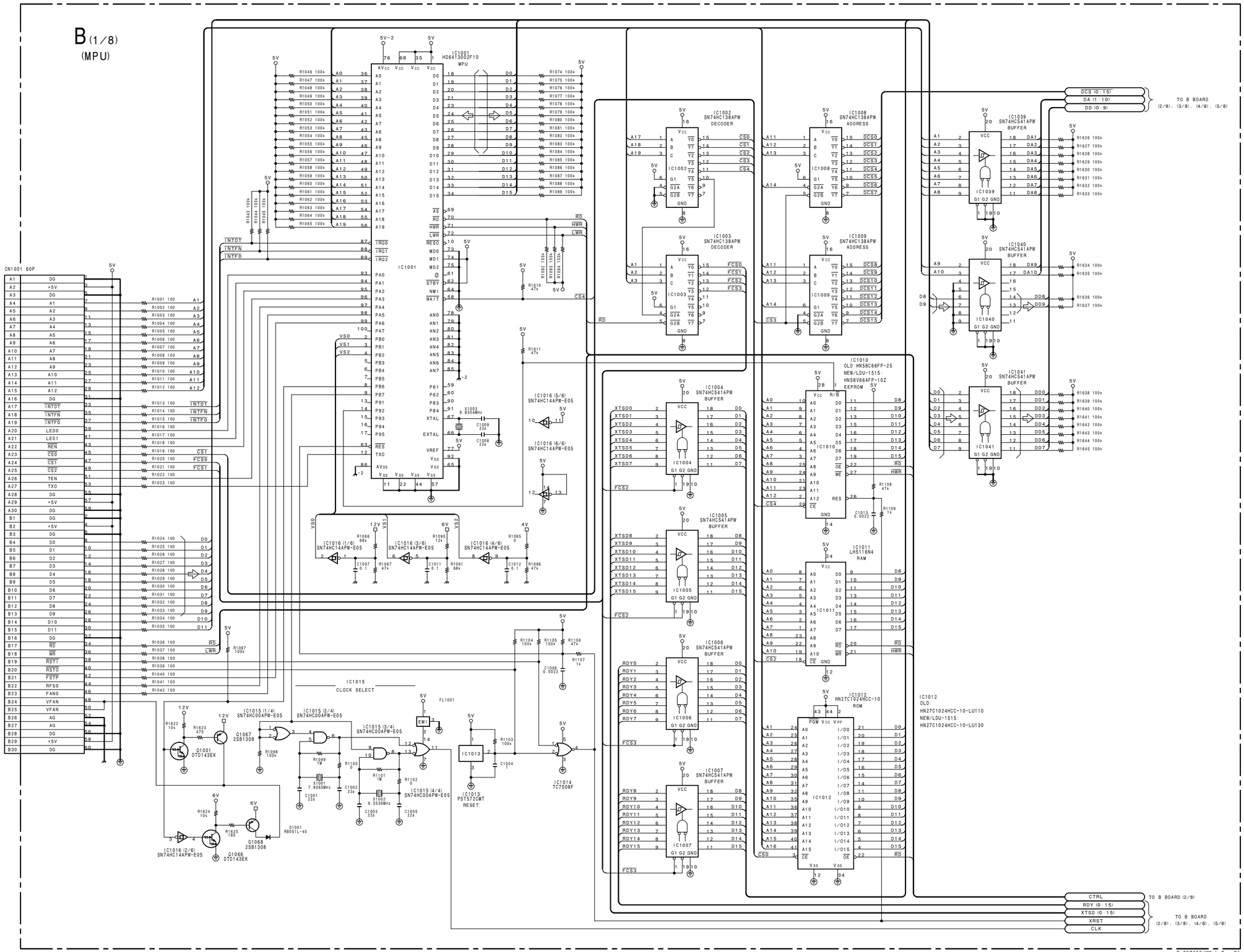
B -B SIDE-
SUFFIX : -11

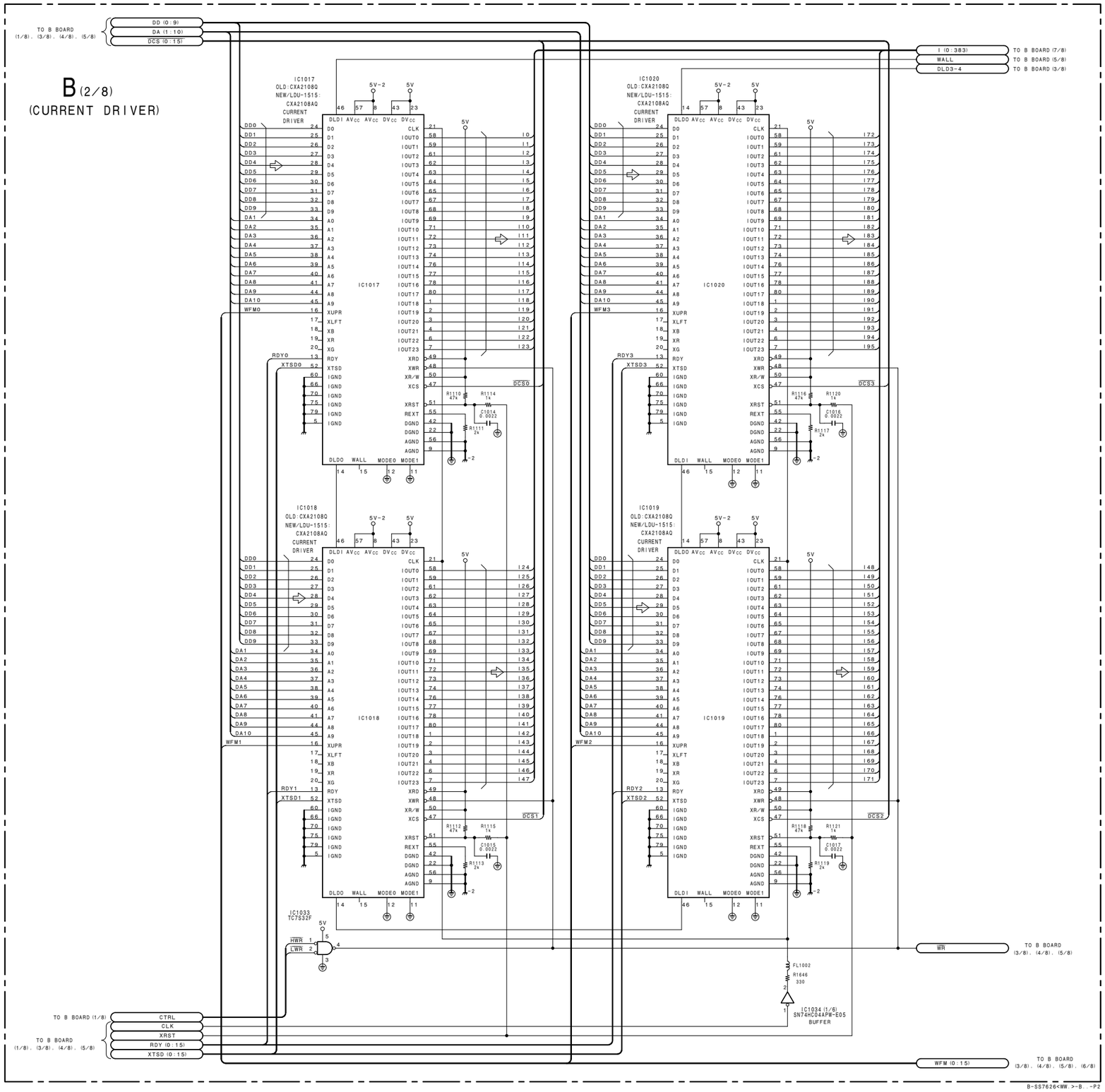
B BOARD (2/8-5/8) IC1017-1032
CXA2108Q



OLD
LDU-1530S
LDU-1530L
LDU-1540S : Up to S/N 1003497
LDU-1540L : Up to S/N 1002490

NEW
LDU-1540S : S/N 1003498 and Higher
LDU-1540L : S/N 1002491 and Higher



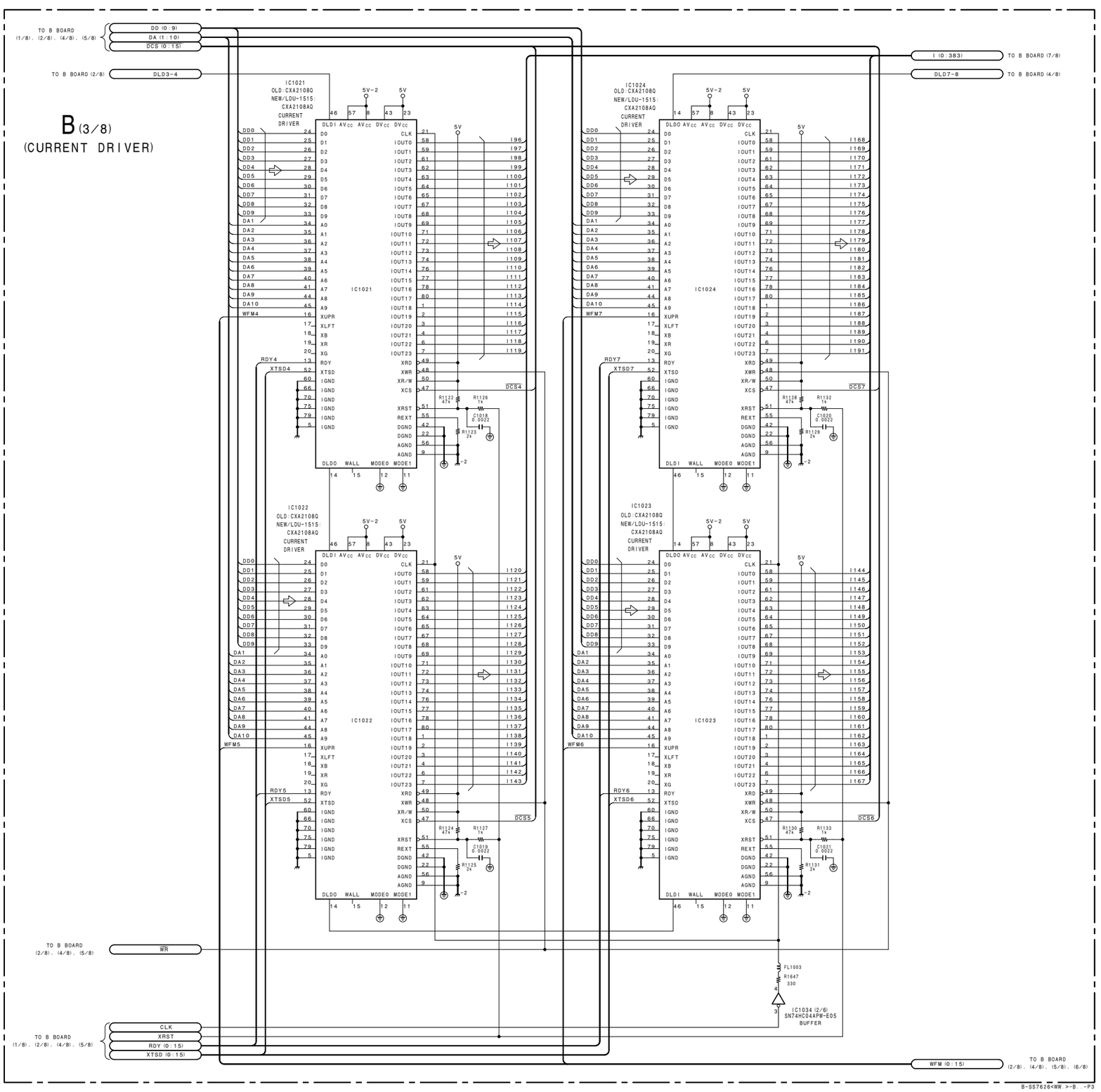


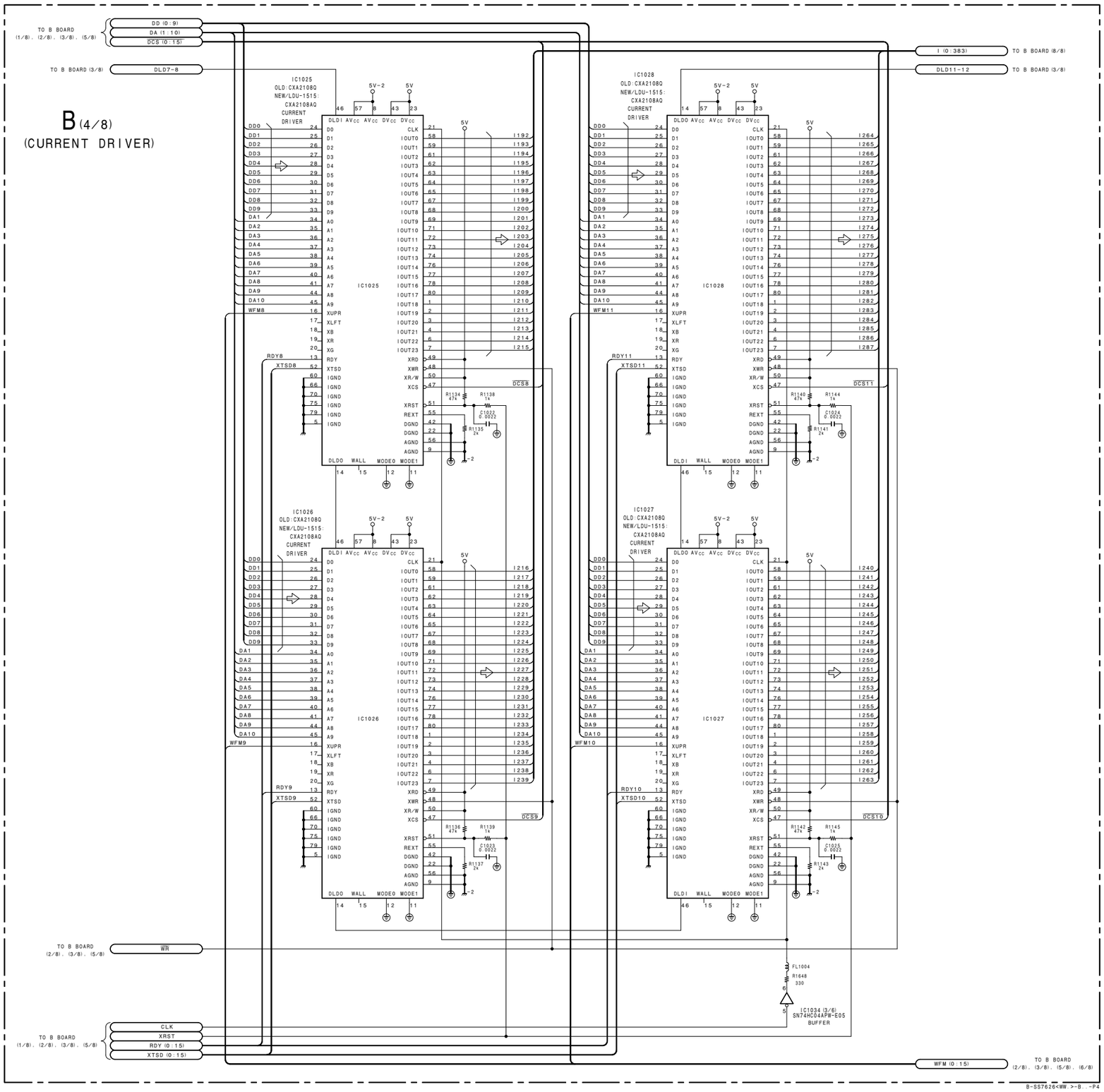
OLD
LDU-1530S
LDU-1530L
LDU-1540S : Up to S/N 1003497
LDU-1540L : Up to S/N 1002490

NEW
LDU-1540S : S/N 1003498 and Higher
LDU-1540L : S/N 1002491 and Higher

OLD
LDU-1530S
LDU-1530L
LDU-1540S : Up to S/N 1003497
LDU-1540L : Up to S/N 1002490

NEW
LDU-1540S : S/N 1003498 and Higher
LDU-1540L : S/N 1002491 and Higher



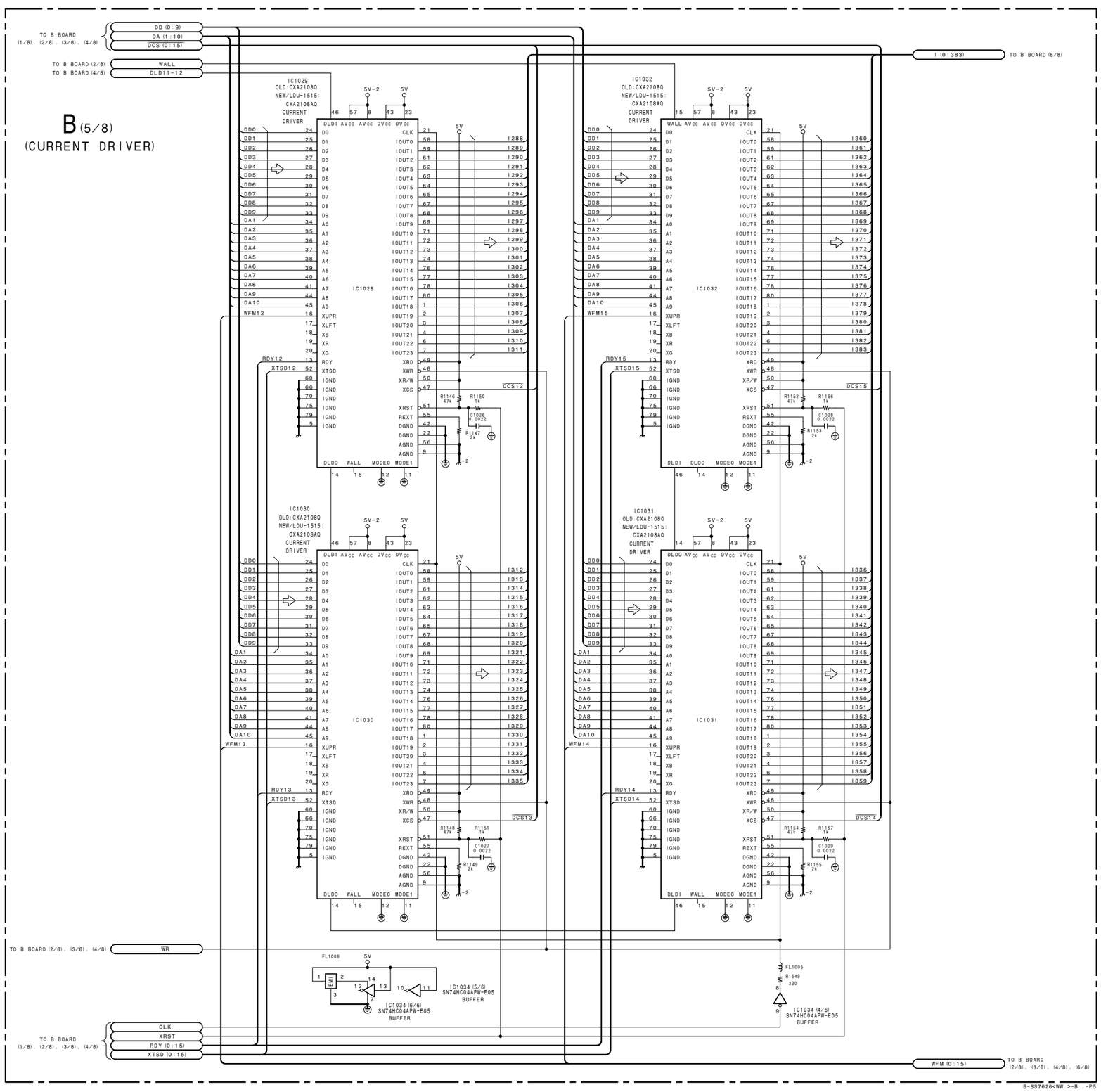


OLD
LDU-1530S
LDU-1530L
LDU-1540S : Up to S/N 1003497
LDU-1540L : Up to S/N 1002490

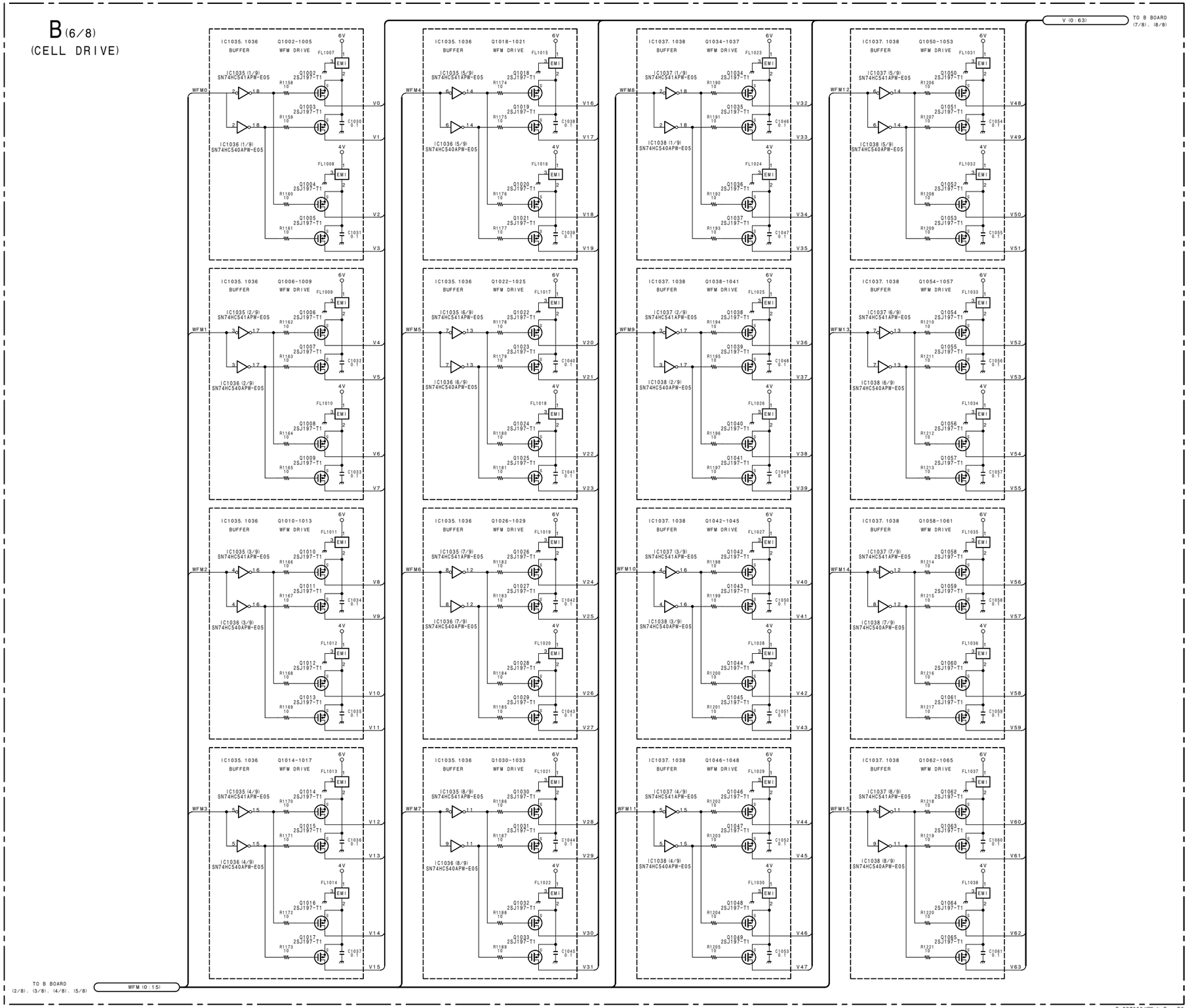
NEW
LDU-1540S : S/N 1003498 and Higher
LDU-1540L : S/N 1002491 and Higher

OLD
LDU-1530S
LDU-1530L
LDU-1540S : Up to S/N 1003497
LDU-1540L : Up to S/N 1002490

NEW
LDU-1540S : S/N 1003498 and Higher
LDU-1540L : S/N 1002491 and Higher



B (6/8)
(CELL DRIVE)

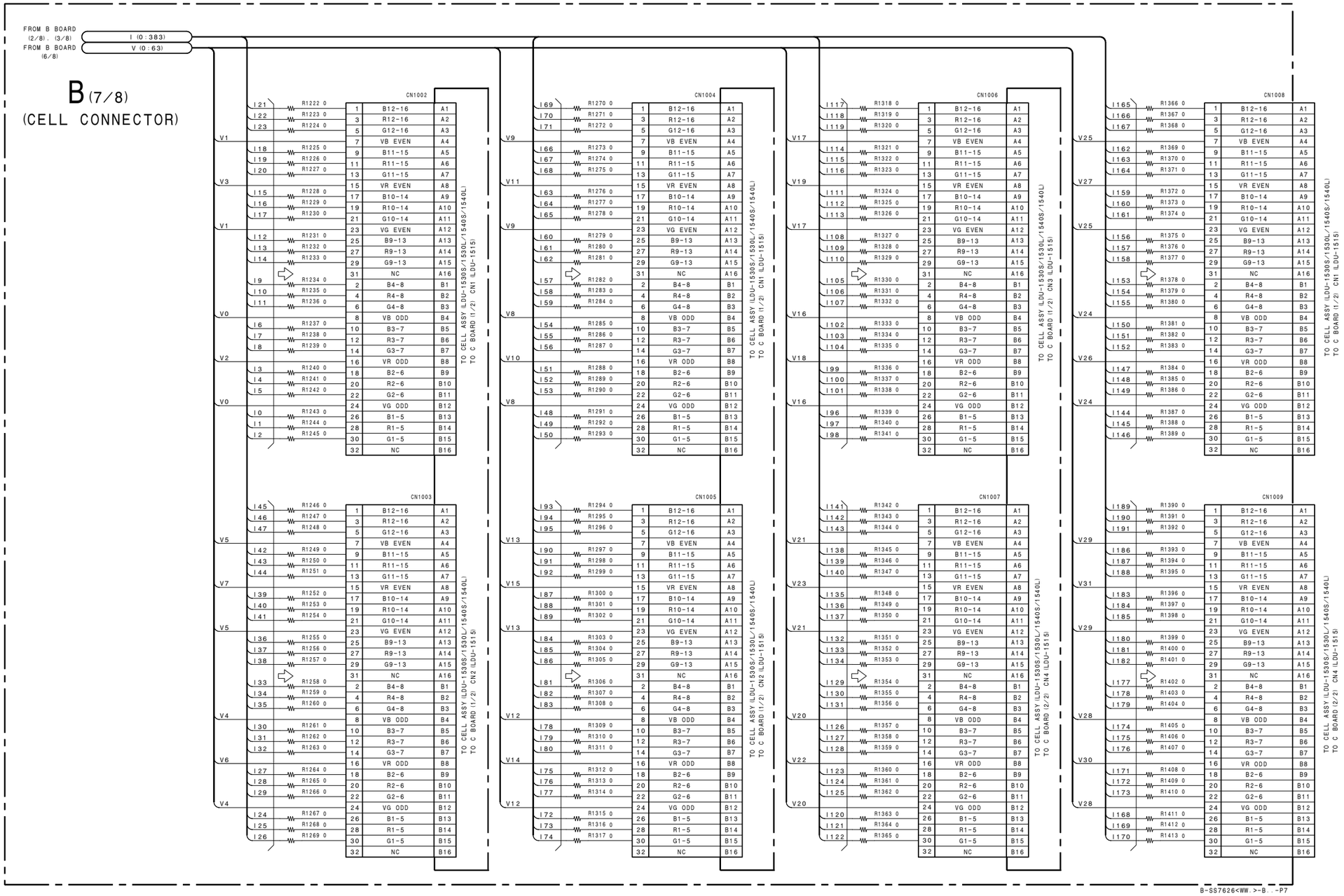


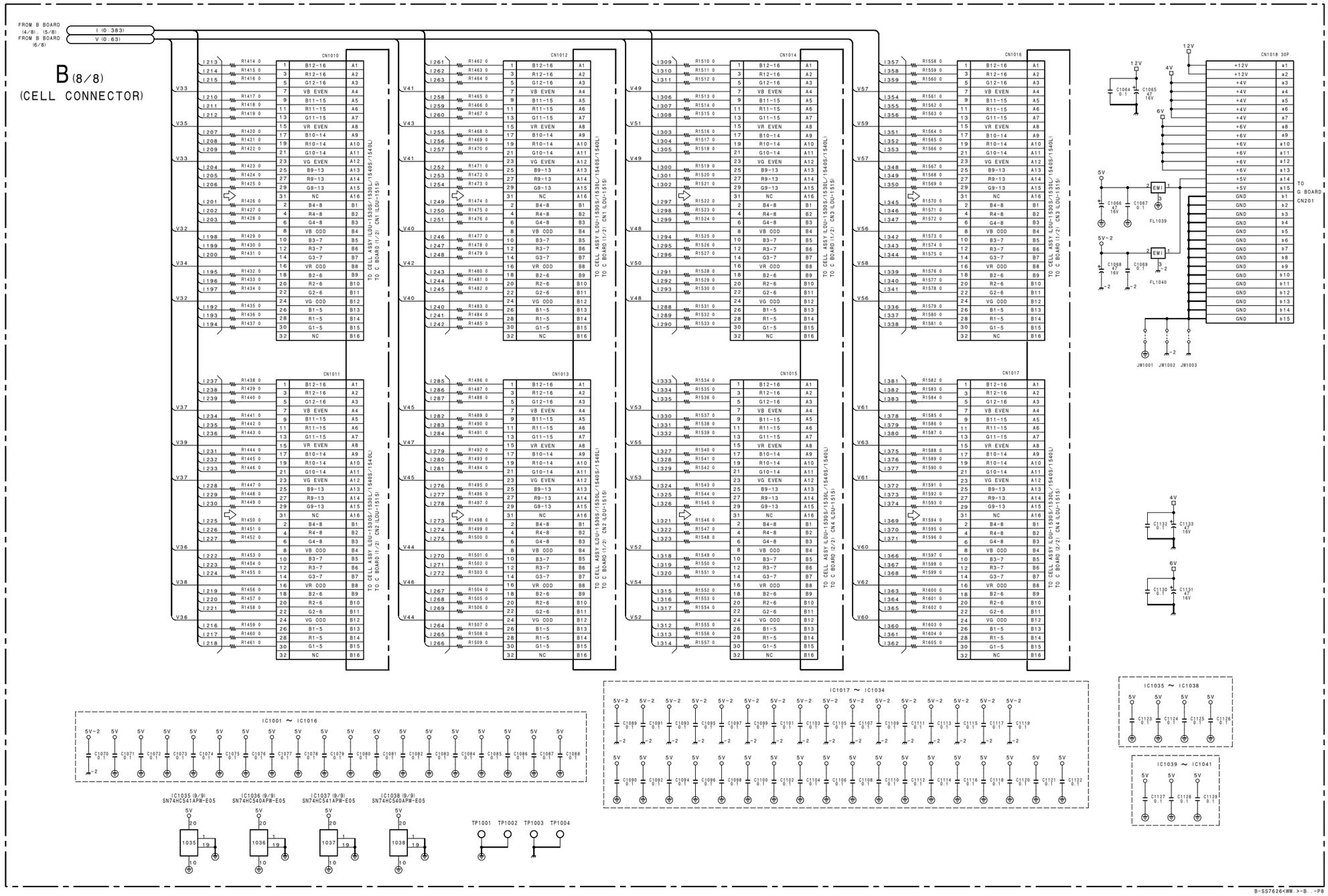
OLD
LDU-1530S
LDU-1530L
LDU-1540S : Up to S/N 1003497
LDU-1540L : Up to S/N 1002490

NEW
LDU-1540S : S/N 1003498 and Higher
LDU-1540L : S/N 1002491 and Higher

OLD
LDU-1530S
LDU-1530L
LDU-1540S : Up to S/N 1003497
LDU-1540L : Up to S/N 1002490

NEW
LDU-1540S : S/N 1003498 and Higher
LDU-1540L : S/N 1002491 and Higher



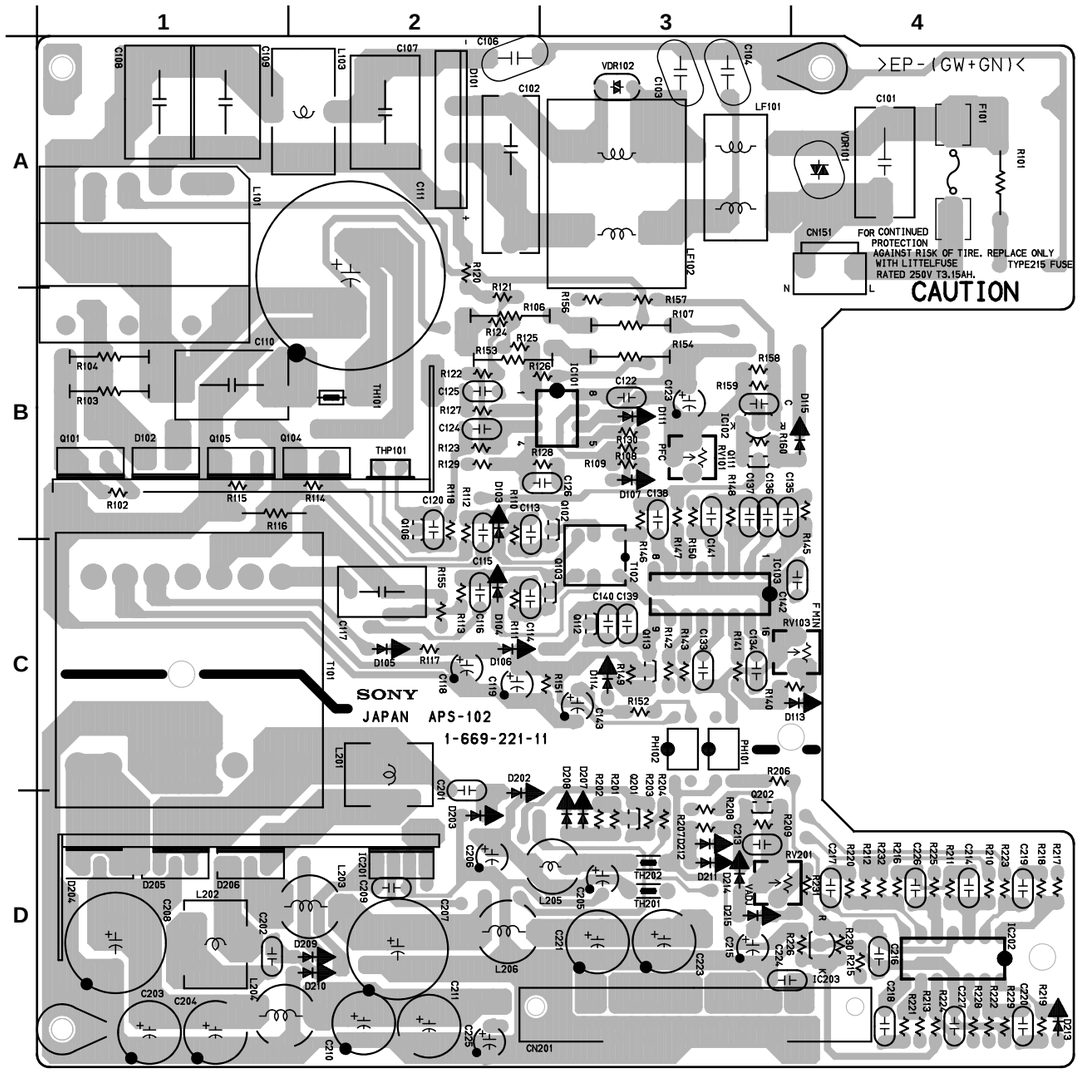


OLD
LDU-1530S
LDU-1530L
LDU-1540S : Up to S/N 1003497
LDU-1540L : Up to S/N 1002490

NEW
LDU-1540S : S/N 1003498 and Higher
LDU-1540L : S/N 1002491 and Higher

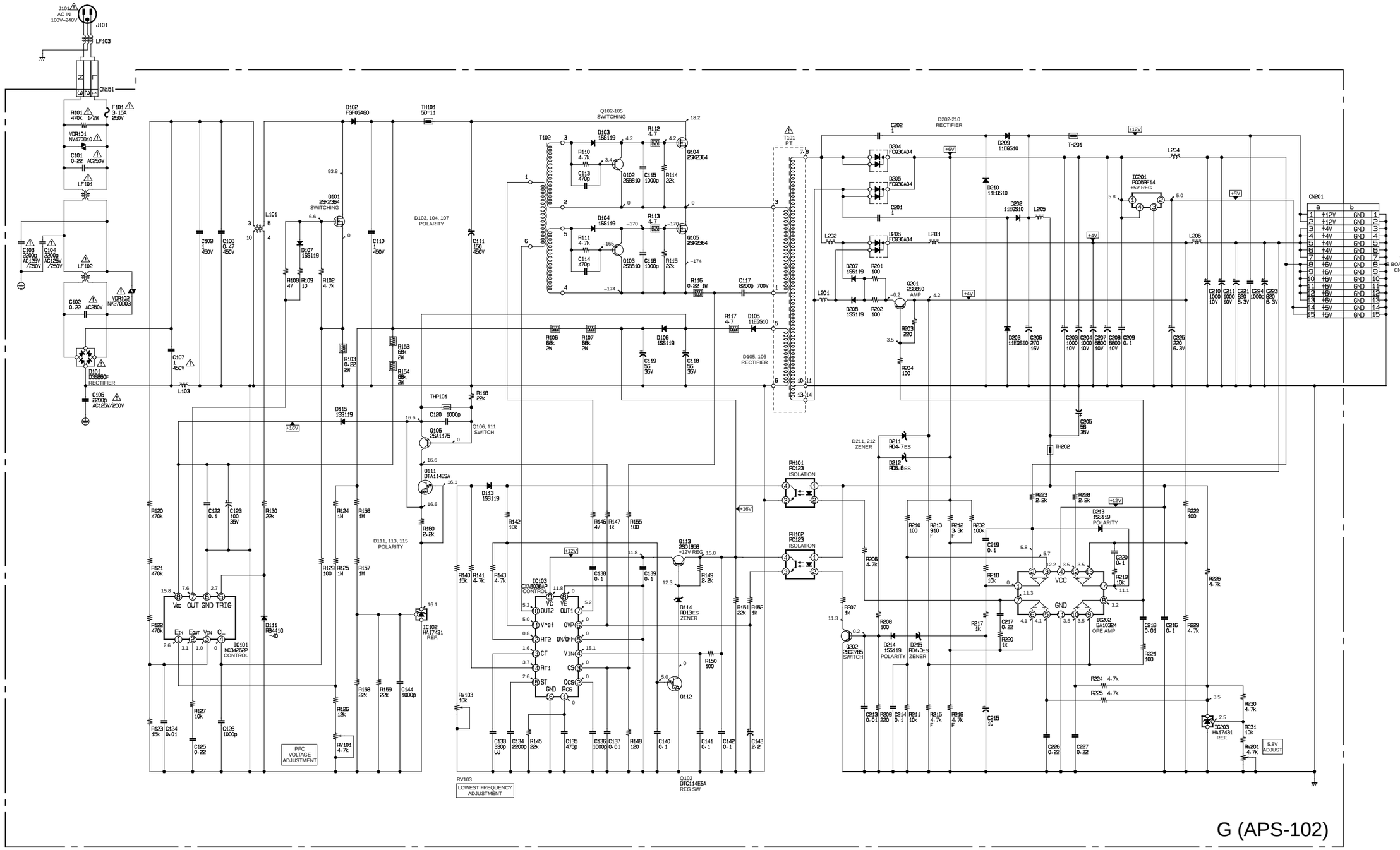
G (APS-102) BOARD

D101	A-2
D102	B-1
D103	B-2
D104	C-2
D105	C-2
D106	C-2
D107	B-3
D111	B-3
D113	C-4
D114	C-3
D115	B-4
D202	D-2
D203	D-2
D204	D-1
D205	D-1
D206	D-1
D207	D-3
D208	D-3
D209	D-2
D210	D-2
D211	D-3
D212	D-3
D213	D-4
D214	D-3
D215	D-3
IC101	B-3
IC102	B-3
IC103	C-3
IC201	D-2
IC202	D-4
IC203	D-4
Q101	B-1
Q102	B-3
Q103	C-3
Q104	B-2
Q105	B-1
Q106	B-2
Q111	B-3
Q112	C-3
Q113	C-3
Q201	D-3
Q202	D-3
RV101	B-3
RV103	C-4
RV201	D-3



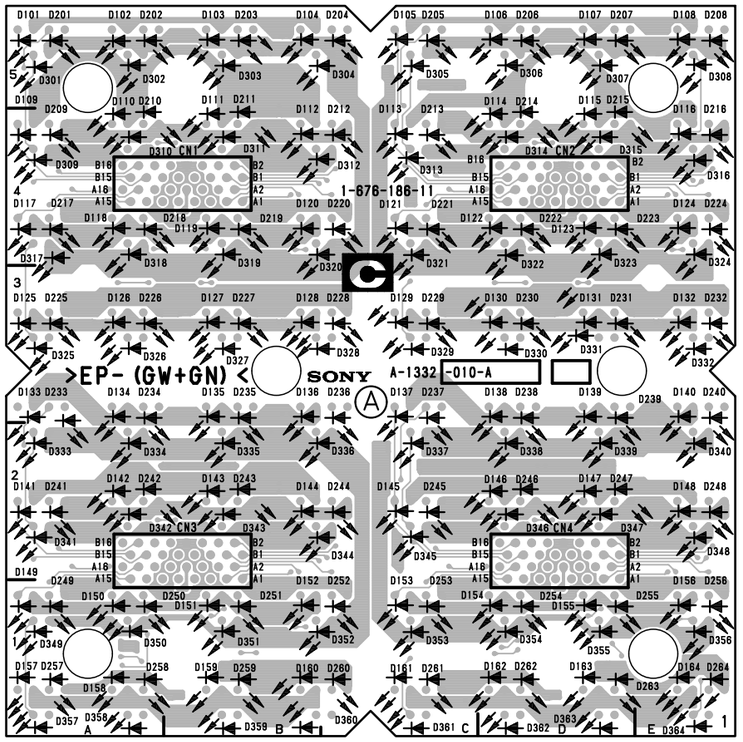
G (APS-102)

SUFFIX : -11

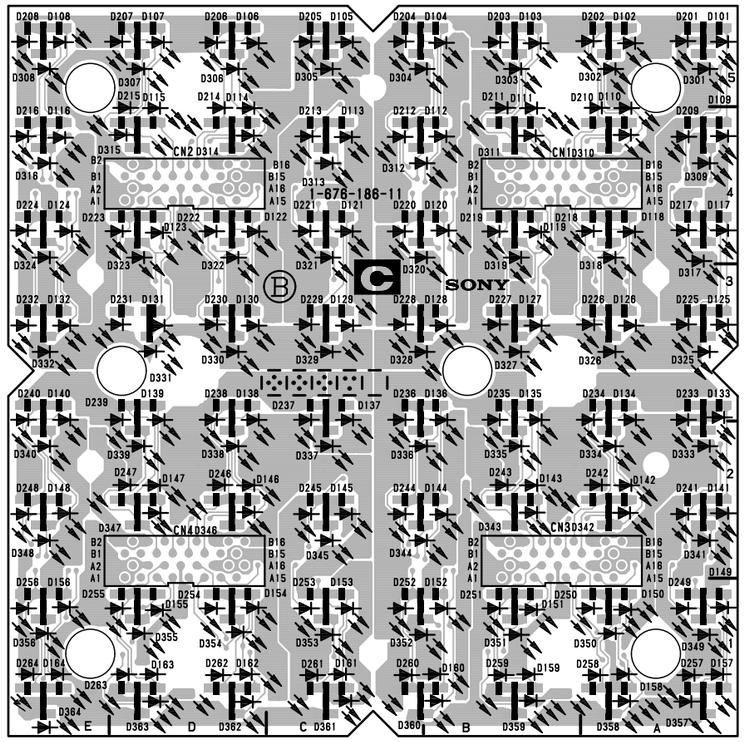

J101
AC IN
100V~240V
LF103
CN151
F101
3.15A
250V
R101
470k 1/2W
VDR101
NV470D10
C101
0.22 AC250V
LF101
C103
2200p
AC125V
/250V
C104
2200p
AC125V
/250V
LF102
C102
0.22 AC250V
VDR102
NV270D03
D101
D3SBB60F
RECTIFIER
C106
2200p
AC125V/250V
C107
1
450V
L103
C109
1
450V
C108
0.47
450V
D102
FSF05A60
TH101
5D-11
L101
T102
Q101
2SK2364
SWITCHING
D103, 104, 107
POLARITY
C110
1
450V
C111
150
450V
Q102-105
SWITCHING
D103
1SS119
R112
4.7
Q104
2SK2364
R110
4.7k
C113
470p
Q102
2SB810
C115
1000p
R114
22k
D104
1SS119
R113
4.7
Q105
2SK2364
R111
4.7k
C114
470p
Q103
2SB810
C116
1000p
R115
22k
R116
0.22 1W
C117
8200p 700V
R117
4.7
D105
11EQS10
D105, 106
RECTIFIER
R107
68k
2W
R106
68k
2W
D106
1SS119
C119
56
35V
C118
56
35V
R153
68k
2W
R154
68k
2W
R103
0.22
2W
R102
4.7k
R108
47
R109
10
D107
1SS119
THP101
C120 1000p
R118
22k
Q106, 111
SWITCH
Q106
2SA1175
Q111
DTA114ESA
D115
1SS119
+16V
D113
1SS119
R142
10k
R146
47
R147
1k
R155
100
D111, 113, 115
POLARITY
R120
470k
R121
470k
R122
470k
C122
0.1
C123
100
35V
R130
22k
R124
1M
R156
1M
R129
100
R125
1M
R157
1M
R160
2.2k
D111
RB441Q
~40
IC102
HA17431
REF.
IC101
MC34025
CONTROL
R158
22k
R159
22k
C144
1000p
R123
15k
C124
0.01
R127
10k
C125
0.22
C126
1000p
R126
12k
RV101
4.7k
PFC
VOLTAGE
ADJUSTMENT
Q113
2SD1858
+12V REG
D114
RD13ES
ZENER
R149
2.2k
R150
100
Q112
IC103
CXA8038AP
CONTROL
C138
0.1
C139
0.1
R140
15k
R141
4.7k
R143
4.7k
R151
22k
R152
1k
RV103
10k
C133
330p
UJ
C134
2200p
R145
22k
C135
470p
C136
1000p
C137
0.01
R148
120
C140
0.1
C141
0.1
C142
0.1
C143
2.2
RV103
LOWEST FREQUENCY
ADJUSTMENT
Q102
DTC114ESA
REG SW
T101
PT
D202-210
RECTIFIER
C202
1
D204
FD330A04
D205
FD330A04
C201
1
D206
FD330A04
D207
1SS119
R201
100
D208
1SS119
Q201
2SB810
AMP
R202
100
R203
220
R204
100
L201
L202
L203
L204
L205
L206
D209
11EQS10
TH201
D210
11EQS10
D202
11EQS10
IC201
PQ05RF14
+5V REG
D203
11EQS10
C206
270
16V
C203
1000
10V
C204
1000
10V
C207
6800
10V
C208
6800
10V
C209
0.1
C210
1000
10V
C211
1000
10V
C221
820
6.3V
C224
1000
6.3V
C223
820
6.3V
C225
220
6.3V
CN201
TO
BOARD (8/8)
CN1018
D211, 212
ZENER
D211
RD4.7ES
D212
RD6.8ES
C205
56
35V
TH202
PH101
PC123
ISOLATION
PH102
PC123
ISOLATION
R223
2.2k
R228
2.2k
D213
1SS119
POLARITY
R222
100
R210
100
R213
910
F
R212
3.3k
F
R232
100k
C219
0.1
R218
10k
R219
10k
C220
0.1
R226
4.7k
R206
4.7k
R207
1k
R208
100
D214
1SS119
POLARITY
D215
RD4.3ES
ZENER
Q202
2SC2785
SWITCH
R217
1k
C217
0.22
R220
1k
IC202
BA10324
OPE AMP
C218
0.01
C216
0.1
R229
4.7k
R221
100
R224 4.7k
R225 4.7k
C213
0.01
R209
220
C214
0.1
R211
10k
R215
4.7k
F
R216
4.7k
F
C215
10
C226
0.22
C227
0.22
IC203
HA17431
REF.
R230
4.7k
R231
10k
RV201
4.7k
5.8V
ADJUST

G (APS-102)

LDU-1515

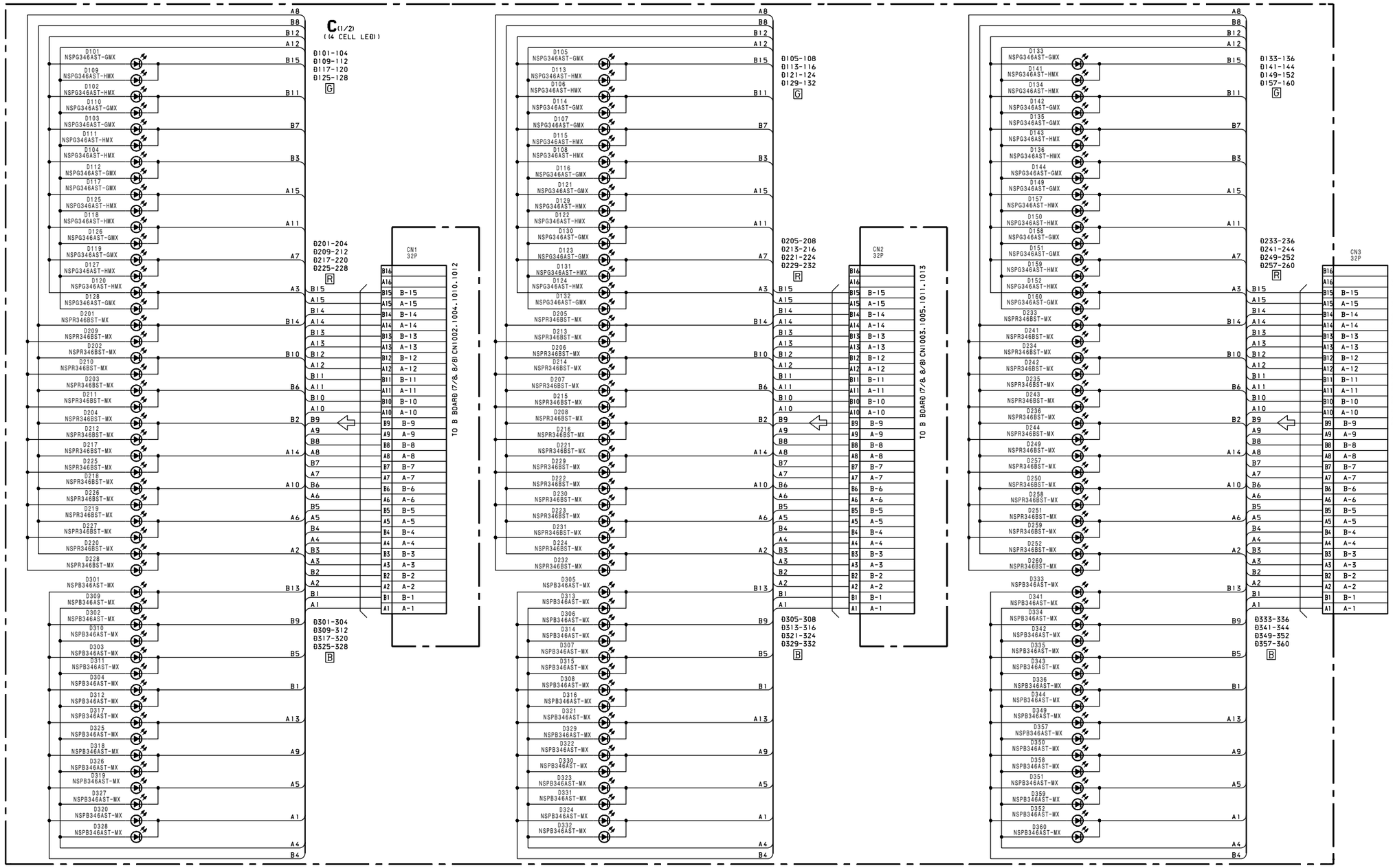


C -A SIDE-
SUFFIX : -11

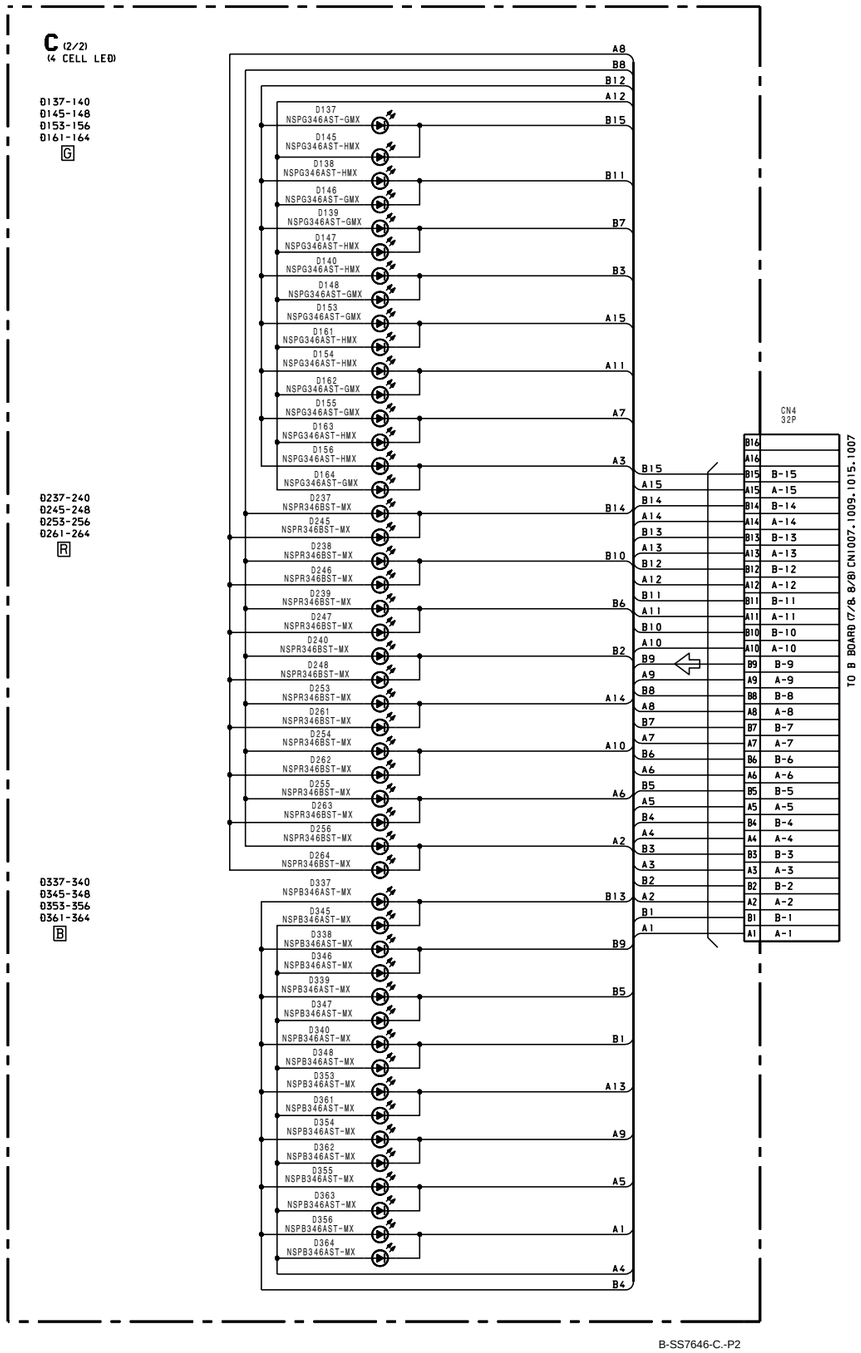


C -B SIDE-
SUFFIX : -11

LDU-1515


C(1/2)
(14 CELL LED)
D101-104
D109-112
D117-120
D125-128
G
D201-204
D209-212
D217-220
D225-228
R
D301-304
D309-312
D317-320
D325-328
B
D105-108
D113-116
D121-124
D129-132
G
D205-208
D213-216
D221-224
D229-232
R
D305-308
D313-316
D321-324
D329-332
B
D133-136
D141-144
D149-152
D157-160
G
D233-236
D241-244
D249-252
D257-260
R
D333-336
D341-344
D349-352
D357-360
B
CN1 32P
CN2 32P
CN3 32P
TO B BOARD (7/8, 8/8) CN1002.1004.1010.1012
TO B BOARD (7/8, 8/8) CN1003.1005.1011.1013
TO B BOARD (7/8) CN1006.1008.1014.1016
B-SS7646-C-P1

LDU-1515


C (2/2)
(4 CELL LED)
D137-140
D145-148
D153-156
D161-164
G
D237-240
D245-248
D253-256
D261-264
R
D337-340
D345-348
D353-356
D361-364
B
D137 NSPG346AST-GMX
D145 NSPG346AST-HMX
D138 NSPG346AST-HMX
D146 NSPG346AST-GMX
D139 NSPG346AST-GMX
D147 NSPG346AST-HMX
D140 NSPG346AST-HMX
D148 NSPG346AST-GMX
D153 NSPG346AST-GMX
D161 NSPG346AST-HMX
D154 NSPG346AST-HMX
D162 NSPG346AST-GMX
D155 NSPG346AST-GMX
D163 NSPG346AST-HMX
D156 NSPG346AST-HMX
D164 NSPG346AST-GMX
D237 NSPR346BST-MX
D245 NSPR346BST-MX
D238 NSPR346BST-MX
D246 NSPR346BST-MX
D239 NSPR346BST-MX
D247 NSPR346BST-MX
D240 NSPR346BST-MX
D248 NSPR346BST-MX
D253 NSPR346BST-MX
D261 NSPR346BST-MX
D254 NSPR346BST-MX
D262 NSPR346BST-MX
D255 NSPR346BST-MX
D263 NSPR346BST-MX
D256 NSPR346BST-MX
D264 NSPR346BST-MX
D337 NSPB346AST-MX
D345 NSPB346AST-MX
D338 NSPB346AST-MX
D346 NSPB346AST-MX
D339 NSPB346AST-MX
D347 NSPB346AST-MX
D340 NSPB346AST-MX
D348 NSPB346AST-MX
D353 NSPB346AST-MX
D361 NSPB346AST-MX
D354 NSPB346AST-MX
D362 NSPB346AST-MX
D355 NSPB346AST-MX
D363 NSPB346AST-MX
D356 NSPB346AST-MX
D364 NSPB346AST-MX
CN4
32P
TO B BOARD (7/8, 8/8) CN1007, 1009, 1015, 1007
B-SS7646-C.-P2

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